



Memorandum

*To: Stephanie Vaughn (USEPA)
Elizabeth Buckrucker (USACE)*

*From: Scott Kirchner (CDM Smith)
George Molnar (CDM Smith)*

Date: October 16, 2013

*Re: Status Report (October 4 through October 20, 2012)
Background Fish Community Survey and Tissue Collection
Lower Passaic River Restoration Project*

On behalf of the United States Environmental Protection Agency (EPA) and the United States Army Corps of Engineers (USACE), Kansas City District, CDM Federal Programs Corporation (CDM Smith) provided oversight of the Cooperating Parties Group (CPG) background fish tissue collection and community survey associated with the remedial investigation/feasibility study (RI/FS) of the Lower Passaic River (LPR). This memorandum summarizes CDM Smith oversight observations of in-river field work and fish processing activities conducted by CPG contractors Windward Environmental (Windward) from October 4, 2012 through October 20, 2012. Aqua Survey Inc. (ASI) provided vessel and sampling support. The following are included as attachments to this memorandum:

- Attachment 1 UPR Reconnaissance Survey – Points of Interest Forms; these forms were completed and provided by Windward
- Attachment 2 Fish Processing Forms
- Attachment 3 Health Assessment Forms
- Attachment 4 Photographs of Field and Laboratory Activities
- Attachment 5 Copies of Oversight Logbook Notes

The following summarizes pertinent information and observations collectively made each week during the course of the sampling event. The number of species and individuals caught reflect observations made by oversight personnel and may not necessarily imitate final numbers.

All activities were conducted in accordance with CPG's Background Tissue Addendum to the Quality Assurance Project Plan (QAPP).

Week 1 Activities, October 4 and October 5, 2012. Reconnaissance activities above Dundee Dam from river miles (RM) 17.4 to RM 21.5 were conducted to identify fish sampling locations and potential outfalls (e.g., storm drains, combine sewer overflows, etc.). Approximately 55 potential outfalls were observed and position recorded using a hand-held global positioning system (GPS) unit. In general, the majority of outfalls appeared to be storm water drains. With the exception of a few locations, no discharges were observed.

A minimum of three target bank-specific sampling locations were identified within each reach. To the best possible effort, all locations were kept away from any outfalls. In addition, at each location water depths were recorded. In addition, a preliminary reconnaissance was conducted to scope out proposed background sediment sampling locations. At each of these locations, water depth and sediment substrate were noted. A more thorough reconnaissance was conducted at a later date prior to the sediment sampling event.

Week 2 Activities, October 8 through October 13, 2012. Efforts during the first week of sampling focused primarily on catching target species which included channel catfish (or surrogate catfish species such as brown bullhead), American eel, largemouth bass (or surrogate bass species such as smallmouth bass), and common carp from select sample locations within Reaches 9 (RM 17.4 to RM 19.5) and 10 (RM 19.5 to RM 21.5).

Minnow traps, eel traps, trotlines, and gillnets were deployed on day one and allowed to soak for a period of five days with each checked daily over the course of the week. In addition, electroshocking, beach seining, and angling methods were conducted. With the exception of angling, the other fishing methods proved successful during the first week effort.

At each minnow and eel trap location, three traps were deployed with the openings parallel to the shoreline, and were baited with cat food. Minnow traps and eel traps proved successful in catching juvenile bluegill, pumpkinseed, redbreast sunfish, shiners, and American eel.

For each trotline location, three lines were deployed fifty feet apart from each other and aligned perpendicular to the shoreline. Trotlines were baited with either shrimp, worms, or catfish bait. Each line was approximately 60 feet in length and contained ten hooks. Trotlines caught a variety of fish including brown bullhead catfish and American eel.

Electrofishing was conducted at a total of three locations over a two day period. Two of the locations were within Reach 9 and one location was within Reach 10. Electrofishing caught a variety of fish species including carp, brown bullhead catfish, redbreast sunfish, pumpkinseed, bluegill, spottail shiners.

Beach seining was conducted over a two day period which included three locations in Reach 9 and seven locations in Reach 10. Yields from beach seining included mostly small forage fish such as juvenile bluegill and pumpkinseed. However, other species caught included inland silverside, tessellated darter, spottail shiner, golden shiner, redbreast sunfish, banded killifish, striped killifish, mosquitofish, smallmouth bass, largemouth bass, rock bass, and crayfish.

Gillnets proved to catch the most variety of fish species and sizes. Each gillnet was deployed perpendicular to the shoreline stretching an average distance of 80 feet. Catch included carp, white perch, channel catfish, brown bullhead catfish, northern pike, smallmouth bass, and white sucker.

All fish collected were taken back to the CPG field facility for processing (determination of weight, length, and sex), and when selected, for health assessments. Fish processed included target and non-target species, and were frozen for future analysis. Health assessments were performed on brown bullhead catfish, carp, and white sucker. No major abnormalities were observed during the health assessments. The most common abnormality observed were abrasions to the fins and gills most likely caused from gillnets. Since catch quotas were met for both carp and white sucker, any additional fish

caught of these two species were released back into the river. However, all fish (carp and white sucker) were measured and weighed prior to being released back into the river. Although the catch quota was met for brown bullhead catfish, CPG continued to keep all brown bullhead as a precaution to fulfill analytical volume requirements.

Week 3 Activities, October 15 through October 20, 2012. All fish sampling equipment was redeployed within the same locations along both reaches. However, a few locations were moved slightly from their original locations due to poor catch results from the first week. Efforts during the second week of sampling focused primarily on catching the remaining target species including smallmouth bass and American eel. Similar to the first week, all fish traps deployed were positioned so their openings were parallel to the shoreline while trot lines and gill nets were deployed perpendicular to the shoreline. In addition, electrofishing was conducted within both reaches during the second week. Angling proved successful in catching a few rock bass. Beach seining was not conducted during the second week.

At each minnow and eel trap location, three traps were deployed and baited with cat food. Minnow traps and eel traps proved successful in catching juvenile bluegill, pumpkinseed, redbreast sunfish, spottail shiner, golden shiners, and American eel.

At each trotline location, three lines were deployed fifty feet apart from each other. Trotlines caught a variety of fish including carp, brown bullhead catfish, channel catfish, and American eel.

A total of three locations were targeted for electroshocking within Reach 9 and six within Reach 10. Several attempts were made at each of the locations. Catch results within both reaches included common carp, oriental carp, white sucker, brown bullhead catfish, American eel, smallmouth bass, largemouth bass, rock bass, pumpkinseed, redbreast sunfish, bluegill, crappie, tessellated darter, spottail shiner, and golden shiner.

Similar to the first week, gillnets proved to catch the most variety of fish species and sizes. Catches included common carp, oriental carp, white perch, yellow perch, brown bullhead catfish, northern pike, smallmouth bass, rock bass, and white sucker, redbreast sunfish, and pumpkinseed.

Fish collected were taken back to the CPG field facility for processing (determination of weight, length, and sex), and when selected, for health assessments. Fish processed included target and non-target species, and were frozen for future analysis. Health assessments were performed on northern pike, tessellated darter, bluegill, pumpkinseed, redbreast sunfish, and spottail shiners. No major abnormalities were observed during the health assessments. Similar to the first week, abrasions to the fins and gills were observed on fish that were caught using gillnets. Since catch quotas were met for carp and white sucker prior to the start of the second week, any additional fish caught of these two species were measured and weighed prior to being released back into river. Late in the second week, CPG determined to release all brown bullhead catfish weighing less than 300 grams. However, any brown bullhead catfish caught weighing over 300 grams were kept for additional tissue analysis. By the end of the second week, catch quotas for carp, white sucker, northern pike, redbreast sunfish, pumpkinseed, and bluegill had been met.

Attachment 1

UPR Reconnaissance Survey – Points of Interest Forms

UPR Reconnaissance Survey - Points of Interest Form

Date: 10-4-2012

Crew: S. Replinger

Notes: weather = overcast, warm, showers

Reach	Approx RM	Coordinates	Location Type / Notes
10	19.5-20 19.8	X: Y:	pipe 1, east bank road bridge
10	20	X: Y:	Pipe 2 just south of bridge, east bank
10	20	X: Y:	pipe 3 - several pipe openings under bridge, east bank
10	20.2	X: Y:	pipe 4 east
10	20.3	X: Y:	pipe 5 east
10	20.3	X: Y:	pipe 6 mostly hidden
10	20.4	X: Y:	pipe 7 east bank
10	20.5	X: Y:	trib 1 small stream, east bank
10	20.6	X: Y:	pipe 8 east bank, under deck of house (2")
10	20.6	X: Y:	pipe 9 east bank
10	20.7	X: Y:	trib 2 east bank
10	20.8	X: Y:	pipe 10 east bank
10	20.9	X: Y:	pipe 11 east bank, back beneath trees 8" diam
10	21.1	X: Y:	pipe 12 east bank, 1-ft. diameter
10	21.5	X: Y:	pipe 13 east bank 12" diam
10	21.5	X: Y:	pipe 14 east bank 18" diam
10	21.5	X: Y:	pipe 15 west bank, 12" diam
10	21.5	X: Y:	pipe 16 west, 18" diam
10	21.1	X: Y:	pipe 17 west, 18" diam near "rapids"
10	21	X: Y:	pipe 18 west, somewhat smeared, 12"

UPR Reconnaissance Survey - Points of Interest Form

Date: 10-4-2012

Crew: S Replinger

Notes:

Reach	Approx RM	Coordinates	Location Type / Notes
10	21.0	X: Y:	Pipe 19 west, 2 ft. diam, water coming out, avoid sampling nearby.
10	20.9	X: Y:	Pipe 20 (sewer) west, 6" diam, out of building / foundation
10	20.89	X: Y:	Pipe 21 west, 12" diam
10	20.8	X: Y:	Pipe 22 west, under bridge, approx 3 ft. diam
10	20.7	X: Y:	sheet pile area & gauging station? west
10	20.6	X: Y:	Pipe 23 west, 12" diameter, maybe slight trickle
10	20.5	X: Y:	Pipe 24 west, 12" diameter
10	20.3	X: Y:	Pipe 25 west, 18" diam
10	RM 20	X: Y:	Pipe 26 west, small pipe draining bridge, ^(route 4) numerous pipes dis from br
10	19.9	X: Y:	Pipe 27 west, 2 ft diam, half in water
10	19.8	X: Y:	Pipe 28 west, 2 ft. diam, slight trickle
10	19.6	X: Y:	Pipe 29 west, in small inlet, couldn't see actual pipe, but suspected to be the
10	19.6	X: Y:	Pipe 30 west, 12" diameter
10	19.5	X: Y:	Pipe 31 west, 18" diam
10	19.5	X: Y:	Pipe 32 west, 12" diam
9	19.4	X: Y:	Pipe 33 west, 5 ft. diam, labeled w/ "City of Patterson" designation on pipe water coming out
9	19.3	X: Y:	Pipe 34 west, 12" diam
9	19.1	X: Y:	Pipe 35 12" diam, west, water trickle
9	19.1	X: Y:	Pipe 36 west, 3 ft. diam, labeled w/ "City of Patterson" plac
9	18.8	X: Y:	Pipe 37 - multiple pipes: 4 ft, 1 ft, 6" west bank
9	18.7		Pipe 38 west, 5 ft
9	18.7		Pipe 39 12 ft.
9	18.7		Pipe 40 6 inch

UPR Reconnaissance Survey - Points of Interest Form

Date: 10-4-2012

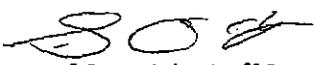
Crew: S. Replinger

Notes:

Reach	Approx RM	Coordinates	Location Type / Notes
9	18.7	X: Y:	Pipe 41, 12" diam, along highway west
9	18.7	X: Y:	Pipe 42, 18" diam; along highway west
9	18.6	X: Y:	Pipe 43, 12" diam west
9	18.6	X: Y:	Pipe 44, 12" diam west, in small inlet
9	18.4	X: Y:	Pipe 45 west, back in from water
9	SR 17.4-17.5 17.5	X: Y:	area near dam has numerous pipes/drainages along W bank
9	SR 17.5 17.6	X: Y:	Pipe 46, 2.5 ft ³ east
9	17.6	X: Y:	Pipe 47, 12" diam (oval) east
9	17.8	X: Y:	Pipe 48 east bank, 18" diam
9	18.6	X: Y:	Pipe 49 east bank, 12" diam
9	18.7	X: Y:	Pipe 50 next to large building east bank, large grate covering opening pipe not visible
9	18.8	X: Y:	Pipe 51 east bank, 8" south edge of bridge
9	18.8	X: Y:	Pipe 52 → also smaller 2nd pipe right above east bank, 3 ft, north edge of bridge also smaller pipes along edge under bridge at this loc.
9	18.9	X: Y:	Pipe 53, 12" diam east bank
9	19.2	X: Y:	Pipe 54, suspect area - pipe not visually located, but area has "inlet" east bank
9	19.3	X: Y:	Pipe 55, 2.5 ft diameter east bank
		X: Y:	
		X: Y:	
		X: Y:	

Attachment 2
Fish Processing Forms

CPG Sampling Location ID UPR09P	River Mile 18.4	Description of Sampling Location Along western bank of sandy island	
Date of Deployment 10/12/12	Equipment Deployed Electroshock	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/12/12	Community Survey and Fish Health Yield includes: 2 brown bullhead catfish 2 carp 6 bluegill 9 pumpkinseed	Comments on "Catch" or selected receptors <u>Carp</u> 565mm; 2.75 kg 570mm; 2.5 kg	Corrective Action (as required)
Date 10/12/12	Print Oversight Staff Person Name Sean O'Hare		Signature of Oversight Staff Person 

CPG Sampling Location ID UPR090	River Mile 19.0	Description of Sampling Location Near bridge supports and along western bank of river. Overhanging branches	
Date of Deployment 10/12/12	Equipment Deployed Electroshock	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/12/12	Community Survey and Fish Health Yield includes 11 pumpkinseed, 2 red breasted sunfish, 3 carp, 2 bluegill, & 1 shiner. All fish were kept except carp which were measured & released	Comments on "Catch" or selected receptors <u>Carp</u> 1.) 492mm; 1.75kg 2.) 525mm; 2.25kg 3.) 473mm; 1.10kg	Corrective Action (as required)
Date 10/12/12	Print Oversight Staff Person Name Sean O'Hare		Signature of Oversight Staff Person 

CPG Sampling Location ID UPR105	River Mile 19.8	Description of Sampling Location Western river bank just north of gillnet location UPR104. Overhanging branches	
Date of Deployment 10/10/12	Equipment Deployed Electrofishing western bank of river	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/10/12	Community Survey and Fish Health Caught 4 carp:	Comments on "Catch" or selected receptors 1.) 865 mm; 11.3 kg 2.) 590 mm; 3800g 3.) 664 mm; 4000g 4.) 552 mm; 2500g	Corrective Action (as required)
Date 10/10/12	Print Oversight Staff Person Name Sean O'Hare		Signature of Oversight Staff Person 

CPG Sampling Location ID UPR090		River Mile 19.0	Description of Sampling Location West Bnk of River under railroad bridge Woody debris, rip rap in water. Depth 15-3'	
Date of Deployment 10-17-12	Equipment Deployed Electro Shock	Comments on Sampling Location or Deployment		Corrective Action (as required)
	1 eel, 6 red breasted sunfish, 7 small mouth bass, 4 pumpkin seed, 2 rock bass			
10/18/12	Electroshock: catch includes 1 bluegill (22g/115mm) and 1 pumpkinseed			
Date of Retrieval 10/16/12	Community Survey and Fish Health Electrofishing. Yield includes:	Comments on "Catch" or selected receptors 1 american eel, 1 shiner, 12 sunfish, & 1 carp. Carp → L = 634mm; W = 3500g		Corrective Action (as required)
10/17/12	Jeff Rakowski	Signature of Oversight Staff Person J. Rakowski		
Date	Print Oversight Staff Person Name	Signature of Oversight Staff Person		

CPG Sampling Location ID UPR09U	River Mile 17.9	Description of Sampling Location Mid-Channel underneath the Garden State Parkway Bridge. Sandy substrate; wood debris and rip rap along bridge supports. Depth is 3'	
Date of Deployment 10-17-12 10-17-12	Equipment Deployed Electro Shock ^{1st attempt} Catch 1 small mouth bass, 14 pumpkin seed, 6 eel, 10 rock bass, 1 white sucker, 1 blue gill Electro Shock 2nd attempt 2 eel, 4 rock bass, 21 red breasted sunfish, 14 pumpkin seed, 15 small mouth bass, 1 brown bullhead	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10-18-12	Community Survey and Fish Health Electroshock - no fish yield includes: 17 pumpkinseed; 2 rock bass; 18 redbreast sunfish; 1 smallmouth bass, & 2 american eel.	Comments on "Catch" or selected receptors Pumpkinseed → Total = 140g Range of Length = 55mm to 115mm Rock Bass → Total = 156g Range of Length = 115mm to 160mm Red-Breast → Total weight = 642g Range of length = 100mm to 135mm	Corrective Action (as required)
Date of Retrieval 10/20/12	Electroshock → no catch		
Date 10/20/12	Print Oversight Staff Person Name Jeff Rakowski		Signature of Oversight Staff Person 

CPG Sampling Location ID UPR09W	River Mile 18.2	Description of Sampling Location Mid-Channel btm. Rt. 46, sandy substrate Depth is ~4'	
Date of Deployment 10-17-12	Equipment Deployed Electro Shock Several carp observed, but not collected due to having sufficient volume.	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)
Date 10/17/12	Print Oversight Staff Person Name Jeff Rakowski		Signature of Oversight Staff Person 

CPG Sampling Location ID UPR090 UPR102	River Mile 19.6	Description of Sampling Location Just north of Elmerand boat ramp on eastern bank. Location has overhanging low shrubs & small trees. Water Depth of 1 to 2 ft.	
Date of Deployment 10/16/12	Equipment Deployed Electrofishing	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/16/12	Community Survey and Fish Health Electrofishing catch includes: 35 sunfish, 1 shiner, & 1 tessellated darter	Comments on "Catch" or selected receptors	Corrective Action (as required)
Date 10/17/12	Community Survey and Fish Health no fish caught		
Date 10/17	Print Oversight Staff Person Name J. Rakowski, S O'Hara		Signature of Oversight Staff Person 

CPG Sampling Location ID UPR10AA	River Mile 20.05	Description of Sampling Location Underneath Rt. 4 Bridge	
Date of Deployment 10/18/12	Equipment Deployed → Electroshock	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/18/12	Community Survey and Fish Health → Electroshock catches no fish	Comments on "Catch" or selected receptors	Corrective Action (as required)
Date 10/18/12	Print Oversight Staff Person Name Sam O'Hare		Signature of Oversight Staff Person 

CPG Sampling Location ID UPR10P-A2	River Mile 20.35	Description of Sampling Location Western bank of river. Shoreline consisted of: oaks, maples, sycamores, & other trees which were overhanging river. Soft sands with silt substrate. Depth is 3' (Seine net)	
Date of Deployment 10/17/12	Equipment Deployed Electro Shock catch 4 small bluegill (released)	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)
Date 10/17/12	Print Oversight Staff Person Name J. Rakowski		Signature of Oversight Staff Person 

CPG Sampling Location ID UPR10Y		River Mile 20.4	Description of Sampling Location Along western eastern bank of River w/ many fallen trees, limbs, branches. Depth is 3'	
Date of Deployment 10/15/12 10/16/12	Equipment Deployed → Electroshock → Electroshock	Comments on Sampling Location or Deployment		Corrective Action (as required)
Date of Retrieval 10/15/12	Community Survey and Fish Health Electroshock includes: 1 brown bullhead catfish 3 pumpkinseed, + 8 red breasted sunfish	Comments on "Catch" or selected receptors		Corrective Action (as required)
10/16/12	Electrofish includes: 23 sunfish, 1 smallmouth bass, 1 largemouth bass, 1 carp ~ 8 carp observed but could not be retrieved	Carp → 3.2 kg / 610 mm		
10/17/12	Not attempted			
Date	S O'Hare Print Oversight Staff Person Name		S O'Hare Signature of Oversight Staff Person	

CPG Sampling Location ID UPR10X	River Mile 20.6	Description of Sampling Location Electrofishing along western bank where there is a large amount of dead trees, & overhanging limbs Depth is ~4'	
Date of Deployment 10/15/12 → 10/16/12 →	Equipment Deployed Electrofishing net Electrofishing net	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/15/12	Community Survey and Fish Health Electrofishing yield includes 8 carp, 1 oriental carp (Coy), 3 bluegill, 3 pumpkinseed, 1 american eel, 1 rock bass.	Comments on "Catch" or selected receptors 2 carp were measured prior to being released Carp @ 3.2 kg; 610 mm / 3 kg; 618 mm / 3.3 kg; 595 mm / 3.8 kg; 645 mm / 3.3 kg; 625 mm / 3.7 kg; 640 mm / 3.3 kg; 615 mm / 2.4 kg; 585 mm Oriental Carp @ 1800g; 510 mm	Corrective Action (as required)
Date of Retrieval 10/16/12	Community Survey and Fish Health Electrofishing yield includes: 12 sunfish, 2 smallmouth bass, 1 carp, ~15 carp & 5 american eel	Comments on "Catch" or selected receptors Carp @ 730 mm; 500g eel were observed but could not be retrieved	Corrective Action (as required)
Date of Retrieval 10/17/12	Community Survey and Fish Health Not attempted	Comments on "Catch" or selected receptors	Corrective Action (as required)
Date	Print Oversight Staff Person Name S. O'Hare	Signature of Oversight Staff Person S. O'Hare	

CPG Sampling Location ID UPR10X	River Mile 20.6	Description of Sampling Location Electrofishing along western bank containing large amount of dead trees + overhanging limbs. Depth is ~4'	
Date of Deployment 10/18/12	Equipment Deployed Electroshock	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/18/12	Community Survey and Fish Health Catch includes: 2 smallmouth bass; 9 american eel; 5 pumpkinseed; 2 redbreast sunfish; 1 brook bullhead catfish; 1 crappie; + 4 rock bass & All pumpkinseed + redbreast sunfish were measured + weighed prior to being released	Comments on "Catch" or selected receptors Pumpkinseed → 104mm to 152mm Total weight is 127g Sunfish → 52g; 142mm	Corrective Action (as required)
Date	S. O'Hare Print Oversight Staff Person Name	S. O'Hare Signature of Oversight Staff Person	

CPG Sampling Location ID UPR10BB	River Mile 20.85	Description of Sampling Location Underneath Bridge alongside bridge supports. There are a few pipes w/in area. However, no water/waste is being discharged back into river	
Date of Deployment 10/18/12	Equipment Deployed Begin electroshocking	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/18/12	Community Survey and Fish Health catch includes 3 american eel American eel are very small	Comments on "Catch" or selected receptors	Corrective Action (as required)
Date 10/18/12	Print Oversight Staff Person Name Sean O'Hare	Signature of Oversight Staff Person S-O'H	

CPG Sampling Location ID UPR 09A		River Mile 17.65	Description of Sampling Location Along eastern river bank. Limited vegetation growing on bank. 6'-8' Deep	
Date of Deployment 10/8/12	Equipment Deployed Tint Lines UPR 09A-A } UPR 09A-B } UPR 09A-C }	Comments on Sampling Location or Deployment All were deployed w/in 50' of each other		Corrective Action (as required)
10/9/12	→ Redeployed			
10/10/12	→ Redeployed			
10/11/12	→ Redeployed			
10/12/12	→ Redeployed			
Date of Retrieval 10/9/12	Community Survey and Fish Health UPR 09A-A → Empty UPR 09A-B → Empty UPR 09A-C → Empty	Comments on "Catch" or selected receptors		Corrective Action (as required)
10/10/12	UPR 09A-A → 1 brown bullhead catfish UPR 09A-B → Empty UPR 09A-C → Empty			
10/11/12	UPR 09A-A → Empty UPR 09A-B → 1 brown bullhead catfish UPR 09A-C → 1 brown bullhead catfish			
10/12/12	UPR 09A-A → Empty UPR 09A-B → Empty UPR 09A-C → 1 brown bullhead catfish			
10/12/12	Sean O'Hare		Signature of Oversight Staff Person	
Date	Print Oversight Staff Person Name		Signature of Oversight Staff Person	

CPG Sampling Location ID UPR09A	River Mile 17.65	Description of Sampling Location Along eastern riverbank. Limited vegetation growing on bank 6'-8' Deep	
Date of Deployment 10/13/12	Equipment Deployed → Pulled trotline	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/13/12	Community Survey and Fish Health UPR09A-A → Empty UPR09A-B → Empty UPR09A-C → 1 brown bottom catfish 8 Trotlines are pulled and will not be re-deployed until 10/15/12	Comments on "Catch" or selected receptors	Corrective Action (as required)
Date 10/13/12	Print Oversight Staff Person Name Sam O'Hare	Signature of Oversight Staff Person SO 12	

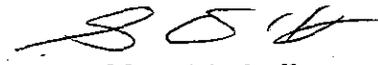
CPG Sampling Location ID	River Mile	Description of Sampling Location	
UPR9I	17.9	East side of island ^{before} GSP. Depth is 4' - 6' ^{SWA}	
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
10/8/12	Gillnet location 9I is deployed		
10/9/12	→ Redeployed		
10/10/12	→ Redeployed		
10/11/12	→ Redeployed		
10/12/12	→ Redeployed		
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)
10/9/12	Gillnet location 9I caught		
	3 bullhead catfish, 1 northern pike, 1 whiteperch; 4 suckers; and 9 carp		
10/10/12	Total catch includes: 4 whiteperch; 2 carp, 1 smallmouth bass; 4 white suckers, and 3 brown bullhead catfish	→ The carp will be kept for human health assessments	
10/11/12	Total catch includes 5 white sucker, 2 carp, 1 smallmouth bass, 1 white perch, & 1 brown bullhead catfish	→ The 2 carp and 5 suckers are weighed & measured prior to being released Carp → 494mm/1900g; 536mm/2200g Suckers → 430, 335mm, 335mm, 384mm, 450mm; 3500g	
10/11/12	Sean O'Hare Print Oversight Staff Person Name	S. O'H Signature of Oversight Staff Person	

CPG Sampling Location ID	River Mile	Description of Sampling Location	
10/12/12 → Retrephed 10/13/12 → Pulled gill net	UPR09I 17.9	East side of island south of GSP Depth is 4' - 6'	
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)
10/12/12	→ 3 white sucker 1 white perch 3 brown bullhead catfish 2 carp	Suckers: 346mm } Total = 1500g 338mm } 335mm } Carp: 520mm; 2kg 564mm; 2.4kg	
10/13/12	1 northern pike, 2 white perch, 3 white sucker, + 2 carp. Both carp + suckers were weighed + measured prior to being released. Gillnet is pulled	Suckers → 455mm, 360mm, 320mm Total weight = 1,950g Carp → 522m, 2kg; 1.7kg, 498m	+ will not be re-deployed until 10/15/12
Date	Print Oversight Staff Person Name	Signature of Oversight Staff Person	
10/13/12	Sean O'Hare	SOH	

CPG Sampling Location ID 02R09L	River Mile 18.1	Description of Sampling Location Eastern bank of river. Vegetated shoreline Depth is 4' to 6'	
Date of Deployment 10/6/12 10/9/12 10/10/12 10/11/12	Equipment Deployed 9L-A, 9L-B, 9L-C UPR9L-A } ^{trattines} All are UPR9L-B } deployed UPR9L-C } w/in 50' of → Redeployed each other → Redeployed → Redeployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/9/12 10/10/12 10/11/12	Community Survey and Fish Health UPR9L-A → came up empty UPR9L-B → came up empty UPR9L-C → came up empty UPR9L-A → Empty UPR9L-B → Empty UPR9L-C → Empty UPR09L-A → Empty UPR09L-B → Empty UPR09L-C → Empty	Comments on "Catch" or selected receptors	Corrective Action (as required)
Date 10/11/12	Print Oversight Staff Person Name Sam O'Hare	Signature of Oversight Staff Person 	

CPG Sampling Location ID UPR09L	River Mile 18.1	Description of Sampling Location Eastern bank of river. Vegetated shoreline. Depth is 4' to 6'	
Date of Deployment 10/12/12 → Redeployed 10/13/12 → Trawl line pulled	Equipment Deployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/12/12	Community Survey and Fish Health UPR09L-A → Empty UPR09L-B → Empty UPR09L-C → Empty	Comments on "Catch" or selected receptors	Corrective Action (as required)
10/13/12	* Trawl lines are pulled and will not be re-deployed until 10/15/12 UPR09L-A → Empty UPR09L-B → Empty UPR09L-C → Empty		
Date 10/13/12	Print Oversight Staff Person Name Sean O'Hare	Signature of Oversight Staff Person 	

CPG Sampling Location ID	River Mile	Description of Sampling Location		
UPR09E	18.4	Stretching from west bank of river to west bank of island. Depth is ~ 11'		
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment	Corrective Action (as required)	
10/8/12	Gillnet ~ 100' in length is deployed	Gillnet is deployed from side of island to Rt. 21 bank of river.		
10/9/12	→ Gillnet redeployed			
10/10/12	→ Gillnet is redeployed			
10/11/12	→ Gillnet is redeployed			
10/12/12	→ Gillnet is redeployed			
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)	
10/9/12	Gillnet pulled in 11 carp, 1 smallmouth bass, 9 white perch, 7 white suckers			
10/10/12	5 white perch, 5 white suckers, & 3 carp			
10/11/12	1 carp + 2 white perches & Carp is released			1 carp → 467mm; 160g
10/12/12	2 white perch; 1 brown bullhead catfish; 1 carp; & 4 white suckers & Carp + sucker were weighed & measured prior to being released			Carp → 532mm; 200g Suckers → 348mm, 368mm, 420mm, 428mm } Total weight = 305g
10/12/12	Sean O'Hare			Signature of Oversight Staff Person
Date	Print Oversight Staff Person Name		Signature of Oversight Staff Person	

CPG Sampling Location ID UPRO9E	River Mile 18.4	Description of Sampling Location Stretching from west bank of river to west bank of island. Depth is ~ 11'	
Date of Deployment 10/13/12	Equipment Deployed → Gillnet is pulled	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/13/12	Community Survey and Fish Health Gillnet catch includes: 4 carp, 1 white sucker, + 1 white perch. Carp + sucker were measured prior to being released. Gillnet was pulled and will not be redeployed until 10/15/12	Comments on "Catch" or selected receptors Carp 1 → 2.4 kg; 530mm Carp 2 → 2.7 kg; 535mm Carp 3 → 2.7 kg; 558mm Carp 4 → 2.3 kg; 560mm White Sucker → 378mm; 600g	Corrective Action (as required)
Date 10/13/12	Print Oversight Staff Person Name Sam O'Hare		Signature of Oversight Staff Person 

CPG Sampling Location ID	River Mile	Description of Sampling Location	
UPR 09G	19.2	Eastern river bank; ~ 200 yds south of Elmwood Park Boat Ramp. Some overhanging trees/bushes Depth is 4' to 7'	
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
10/8/12	→ 09G-A, 09G-B, 09G-C		
	UPR 09G-A } UPR 09G-B } All ^{trollines} are UPR 09G-C } deployed		
10/9/12	→ Redeployed		
10/10/12	→ Redeployed		
10/11/12	→ Redeployed		
10/12/12	→ Redeployed		
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)
10/9/12	UPR 09G-A → Empty		
	UPR 09G-B → Empty		
	UPR 09G-C → Empty		
10/10/12	UPR 09G-A → Empty		
	UPR 09G-B → Empty		
	UPR 09G-C → Empty		
10/11/12	UPR 09G-A → Empty		
	UPR 09G-B → Empty		
	UPR 09G-C → Turtle		
10/12/12	UPR 09G-A → Empty		
	UPR 09G-B → Empty		
	UPR 09G-C → Empty		
10/12/12	Sean O'Hare		
Date	Print Oversight Staff Person Name	Signature of Oversight Staff Person	

CPG Sampling Location ID UPR09G	River Mile 19.2	Description of Sampling Location Eastern river bank; ~200 yds south of bend here. Some overhanging branches & trees. Depth is 4' to 7'	
Date of Deployment 10/13/12	Equipment Deployed → Trawl lines pulled	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/13/12	Community Survey and Fish Health UPR09G-A → Empty UPR09G-B → Empty UPR09G-C → Empty	Comments on "Catch" or selected receptors	Corrective Action (as required)
Date 10/13/12	Print Oversight Staff Person Name Sean O'Hare	Signature of Oversight Staff Person 	

CPG Sampling Location ID UPR 10 H	River Mile 19.7	Description of Sampling Location Western Bank of River. Willow Tree is hanging out over water. Gillnet is in ~ 6-7' of water.	
Date of Deployment 10/8/12 10/9/12 → 10/10/12 → 10/11/12 →	Equipment Deployed Gillnet is deployed → Redeployed → Redeployed → Redeployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/8/12 <hr/> 10/10/12 <hr/> 10/11/12	Community Survey and Fish Health Gillnet yielded 2 carp (1 escaped), 2 brown bullhead catfish, 3 white suckers, 1 white perch <hr/> 1 smallmouth bass, 1 white sucker, & 2 carp <hr/> 2 carp, 2 white sucker, 2 brown bullhead catfish	Comments on "Catch" or selected receptors → The carp & white sucker are examined prior to being released Carp → 2.8 kg, 555 mm; 0.63 kg, 550 mm Sucker → Total weight = 1700g; 402 mm, 433 mm	Corrective Action (as required)
Date 10/11/12	Print Oversight Staff Person Name Sean O'Hare	Signature of Oversight Staff Person 	

CPG Sampling Location ID	River Mile	Description of Sampling Location	
UPR10H	19.7	Western Bank of River. Willow tree is hanging out over water. Gillnet is in 6' to 7' of water.	
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
10/12/12	→ Redeployed		
10/13/12	→ Gillnet pulled		
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)
10/12/12	Gillnet caught 1 channel catfish, 1 carp, & 3 white sucker. Both carp and 3 white suckers were weighed & measured prior to release.	Carp → 477mm / 1400g Sucker 1 → 460mm Sucker 2 → 360mm Sucker 3 → 456mm Total = 2,700g	
10/13/12	Gillnet caught 3 carp, 1 white sucker, 1 northern pike, and 2 brown bullhead catfish. Both carp & white sucker were examined prior to being released. Gillnet was pulled and will not be redeployed until 10/22/12.	Carp 1 → 2.4 kg / 532mm Carp 2 → 1.9 kg / 520mm Carp 3 → 4.1 kg / 671mm Carp 4 → 4.15 kg / 690mm Carp 5 → Sucker →	
10/13/12	Sean O'Hare	Signature of Oversight Staff Person	
Date	Print Oversight Staff Person Name	Signature of Oversight Staff Person	

CPG Sampling Location ID UPR10G		River Mile 19.9	Description of Sampling Location Eastern Bank of River; a dead tree is hanging in water / submerged. 6' to 8' of water	
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment		Corrective Action (as required)
10/8/12	→ Deploy trotlines w/ 10 50' of each other UPR10G-A UPR10G-B UPR10G-C			
10/9/12	→ Redeployed			
10/10/12	→ Redeployed			
10/11/12	→ Redeployed			
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors		Corrective Action (as required)
10/9/12	UPR10G-A → UPR10G-B → UPR10G-C →			
10/10/12	UPR10G-A → 1 brown bullhead catfish UPR10G-B → 2 brown bullhead catfish UPR10G-C → 1 brown bullhead catfish	1 american eel		
10/11/12	UPR10G-A → 1 brown bullhead catfish UPR10G-B → empty UPR10G-C → 1 brown bullhead catfish			
10/11/12	Sean O'Hare		S O'H	
Date	Print Oversight Staff Person Name		Signature of Oversight Staff Person	

CPG Sampling Location ID UPR10G	River Mile 19.9	Description of Sampling Location Eastern Bank of River; a dead tree is lying in water / submerged. 6' to 8' from	
Date of Deployment 10/12/12 → 10/13/12 →	Equipment Deployed Redeployed Trotlines pulled	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/12/12	Community Survey and Fish Health UPR10G-A → Empty UPR10G-B → Empty UPR10G-C → Empty	Comments on "Catch" or selected receptors	Corrective Action (as required)
Date of Retrieval 10/13/12	Community Survey and Fish Health UPR10G-A → Empty UPR10G-B → Empty UPR10G-C → Empty → Trotlines were pulled and will not be re-deployed until 10/15/12	Comments on "Catch" or selected receptors	Corrective Action (as required)
Date 10/13/12	Print Oversight Staff Person Name Sam O'Hare	Signature of Oversight Staff Person 	

CPG Sampling Location ID UPRI0F		River Mile 20.1	Description of Sampling Location Western Bank; Vegetated Shoreline w/ tree limbs overhanging. Depth is ~5'	
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment		Corrective Action (as required)
10/8/12	Trotlines UPRI0F-A UPRI0F-B UPRI0F-C			
10/9/12	→ Redeployed			
10/10/12	→ Redeployed			
10/11/12	→ Redeployed			
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors		Corrective Action (as required)
10/9/12	UPRI0F-A → 1 brown bullhead catfish UPRI0F-B → 1 American eel UPRI0F-C → Empty			
10/10/12	UPRI0F-A → 1 brown bullhead catfish UPRI0F-B → Empty UPRI0F-C → Empty			
10/11/12	UPRI0F-A → Turtle UPRI0F-B → Empty UPRI0F-C → Empty			
10/11/12	Sean O'Hare		S. O'Hare	
Date	Print Oversight Staff Person Name		Signature of Oversight Staff Person	

CPG Sampling Location ID UPR10F	River Mile 20.1	Description of Sampling Location Western Bank; Vegetated shoreline w/ tree limbs overhanging. Depth is ~5'	
Date of Deployment 10/12/12 → 10/13/12 →	Equipment Deployed Retreployed Trawl line pulled	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/12/12	Community Survey and Fish Health UPR10F-A → Empty UPR10F-B → Empty UPR10F-C → Empty	Comments on "Catch" or selected receptors	Corrective Action (as required)
10/13/12	UPR10F-A → 1 brown bullhead catfish UPR10F-B → Empty UPR10F-C → Empty * Trawl lines were pulled and will not be redeployed until 10/15/12		
Date 10/13/12	Print Oversight Staff Person Name Sean O'Hara	Signature of Oversight Staff Person 	

CPG Sampling Location ID UPR10D	River Mile 80.75	Description of Sampling Location Gillnet extends across most of the river. Depth of water is ~6'. There is a good amount of branches/trees submerged on both banks.	
Date of Deployment 10/8/12 10/9/12 10/10/12 10/11/12 10/12/12	Equipment Deployed UPR10D → Gillnet is deployed → Redeployed → Redeployed → Redeployed → Redeployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/9/12 10/10/12 10/11/12 10/12/12	Community Survey and Fish Health UPR10D → 16 white sucker 1 carp UPR10D → 2 huge channel catfish 1 white sucker, 1 carp UPR10D → 3 carp which were measured prior to being released. See measurements	Comments on "Catch" or selected receptors → 1.7 kg / 483 mm; 2.35 kg / 550 mm; 2.75 kg / 550 mm Carp 1 → 2.6 kg / 545 mm Carp 2 → 2.5 kg / 540 mm White Sucker 1 → 443 mm / 3195g White Sucker 2 → 444 mm total	Corrective Action (as required)
Date 10/12/12	Print Oversight Staff Person Name Sam O'Hare	Signature of Oversight Staff Person 	

CPG Sampling Location ID UPR100	River Mile 20.75	Description of Sampling Location Gillnet extends across most of the river. Depth of water is ~6'. There are a good amount of branches submerged on both banks.	
Date of Deployment 10/13/12	Equipment Deployed Gillnet pulled	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/13/12	Community Survey and Fish Health Gillnet catch includes 1 carp. Carp was measured prior to being released. Gillnet was pulled and will not be redeployed until 10/15/12	Comments on "Catch" or selected receptors Carp → 554 mm; 3.15 kg	Corrective Action (as required)
Date 10/13/12	Print Oversight Staff Person Name Sean O'Hare	Signature of Oversight Staff Person 	

CPG Sampling Location ID UPR10C		River Mile 20.8	Description of Sampling Location Eastern Bank of River. Vegetated shoreline w/ overhanging branches. Depth of water is 4.5'	
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment		Corrective Action (as required)
10/8/12	UPR10C-A } UPR10C-B } UPR10C-C } Trawl lines Deployed			
10/9/12	→ Redeployed w/in 50' of each other			
10/10/12	→ Redeployed			
10/11/12	→ Redeployed			
10/12/12	→ Redeployed			
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors		Corrective Action (as required)
10/9/12	UPR10C-A → Empty UPR10C-B → 1 brown bullhead catfish UPR10C-C → 1 american eel			
10/10/12	UPR10C-A → Empty UPR10C-B → Empty UPR10C-C → 2 brown bullhead catfish			
10/11/12	UPR10C-A → Empty UPR10C-B → 1 brown bullhead catfish UPR10C-C → Empty			
10/12/12	UPR10C-A → Empty UPR10C-B → 1 american eel UPR10C-C → Empty			
10/12/12	Date		Signature of Oversight Staff Person	
	Sean O'Hare Print Oversight Staff Person Name		SOH Signature of Oversight Staff Person	

CPG Sampling Location ID UPRIOC	River Mile 20.8	Description of Sampling Location Eastern Bank of River, vegetated shoreline w/ overhanging branches. Depth of water is 4.5'	
Date of Deployment 10/13/12	Equipment Deployed → Trotline pulled	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/13/12	Community Survey and Fish Health UPRIOC-A → SO ^{SO} 10/13/12 → 1 brown bullhead catfish UPRIOC-B → Empty UPRIOC-C → Empty * Trotlines were pulled and will not be redeployed until 10/15/12	Comments on "Catch" or selected receptors	Corrective Action (as required)
Date 10/13/12	Print Oversight Staff Person Name Sean O'Hare	Signature of Oversight Staff Person 	

CPG Sampling Location ID	River Mile	Description of Sampling Location	
UPRO9A	17.7	Eastern Bank of river. Limited disturbed vegetation along shoreline. Branches & trees submerged	
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
10/15/12	Trawl lines deployed at UPRO9A		
10/16/12	UPRO9A-A UPRO9A-B UPRO9A-C → Redeployed		
10/17/12	→ Redeployed		
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)
10/16/12	UPRO9A-A → Empty UPRO9A-B → 1 brown bullhead catfish UPRO9A-C → Empty		
10/17/12	UPRO9A-A Empty " " B Empty " " C 1 brown bullhead caught		
10/18/12	UPRO9A-A → Empty UPRO9A-B → 1 channel catfish UPRO9A-C → 1 brown bullhead catfish		
10/18/12	Date Sean O'Hare, J. Rakowski	Signature of Oversight Staff Person SOH	

CPG Sampling Location ID	River Mile	Description of Sampling Location	
UPRO9A	17.7	Eastern bank of river. Limited disturbed vegetation along shoreline. Branches / trees are submerged	
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
10/18/12	ReDeploy trawlines UPRO9A-A UPRO9A-B UPRO9A-C		
10/19/12	→ Redeployed		
10/20/12	→ Pulled		
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)
10/19/12	→ UPRO9A-A → 1 brown bullhead catfish UPRO9A-B → Empty UPRO9A-C → Empty	→ 271mm; 280g	
10/20/12	→ UPRO9A-A → UPRO9A-B → No fish found UPRO9A-C →		
10/20/12	Date Sean O'Hara Print Oversight Staff Person Name	Signature of Oversight Staff Person 	

CPG Sampling Location ID	River Mile	Description of Sampling Location	
<p>UPRO9II</p>	<p>17.85</p>	<p>Extends from eastern side of island to 100' into river</p>	
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
<p>10/15/12</p>	<p>Deploy gillnet location UPRO9II. This location is 100' up river from original location</p>		
<p>10/16/12</p>	<p>→ Redeployed</p>		
<p>10/17/12</p>	<p>→ Redeployed</p>		
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)
<p>10/16/12</p>	<p>→ Net includes 2 northern pike, 4 carp, & 4 white suckers. Both carp & white suckers were measured prior to being released</p>	<p>white suckers Total Weight = 2,050g Lengths = 345mm, 356mm, 440mm Carp: 419mm, 1.8kg; 520mm, 1.75kg 520mm, 2.05kg; 470mm, 1.9kg</p>	
<p>10/17/12</p>	<p>1 white sucker and carp are caught. They are measured and weighed then thrown back in water.</p>		
<p>10/18/12</p>	<p>1 smallmouth bass, 6 brown bullhead catfish, 1 northern pike, 1 white perch</p>		
<p>10/18/12</p>	<p>Sem O'Hare, J. Rakowski</p>	<p>SOH</p>	
Date	Print Oversight Staff Person Name	Signature of Oversight Staff Person	

CPG Sampling Location ID UPRO9I	River Mile 17.85	Description of Sampling Location Extends from eastern side of island to 100' into river	
Date of Deployment 10/18/12 10/19/12	Equipment Deployed → Redeployed → Pulled gillnet	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/19/12	Community Survey and Fish Health → 1 northern pike which was released after taking measurements	Comments on "Catch" or selected receptors → 822mm; 850g	Corrective Action (as required)
Date 10/19/12	Print Oversight Staff Person Name Sean O'Hare	Signature of Oversight Staff Person 	

CPG Sampling Location ID	River Mile	Description of Sampling Location	
<p>10/15/12</p> <p>10/16/12</p> <p>10/17/12</p>	<p>UPRO9Q</p> <p>18.2</p> <p>Deploy trotlines just south of Rt. 46 Bridge on western bank of river.</p> <p>UPRO9Q-A → Luge hooks (4)</p> <p>UPRO9Q-B → Small hooks (5) → depth C</p> <p>UPRO9Q-C → Luge hooks w/ buoy in middle of trotline so lines are suspended mid mt</p> <p>→ Redeployed lying on river bottom / bed.</p> <p>→ Redeployed</p>	<p>Western bank of river, south of Rt. 46 Bridge. This is a new location which was originally UPRO9L.</p> <p>Comments on Sampling Location or Deployment</p>	<p>Corrective Action (as required)</p>
<p>10/16/12</p> <p>10/17/12</p> <p>10/18/12</p>	<p>Date of Retrieval</p> <p>Community Survey and Fish Health</p> <p>UPRO9Q-A → Empty</p> <p>UPRO9Q-B → 1 channel catfish</p> <p>UPRO9Q-C → 1 American eel</p> <p>UPRO9Q-A, B, C</p> <p>No fish caught</p> <p>UPRO9Q-A → 2 brown bullhead catfish</p> <p>UPRO9Q-B → Empty</p> <p>UPRO9Q-C → Empty</p>	<p>Comments on "Catch" or selected receptors</p> <p>but got off hook prior to being brought onto boat so 10/16/12</p>	<p>Corrective Action (as required)</p>
<p>10/18/12</p>	<p>Sen O'Hare, J. Rakowski</p>	<p>SOV</p>	
<p>Date</p>	<p>Print Oversight Staff Person Name</p>	<p>Signature of Oversight Staff Person</p>	

CPG Sampling Location ID UPR09Q	River Mile 18.2	Description of Sampling Location Western Bank of river, south of Rt. 46 Bridge. This is a new location which was originally across river and known as UPR09L	
Date of Deployment 10/18/12 10/19/12 10/20/12	Equipment Deployed → Trallines redeployed → Redeployed → Pulled	Comments on Sampling Location or Deployment	Corrective Action (as required)
Date of Retrieval 10/19/12 10/20/12	Community Survey and Fish Health UPR09Q-A → 1 american eel UPR09Q-B → 1 brown bullhead UPR09Q-C → 1 brown bullhead UPR09Q-A5 → Could not locate line UPR09Q-B5 → 1 american eel UPR09Q-C5 → No fish	Comments on "Catch" or selected receptors (485mm; 240g) (320mm, 565g) (355mm, 590g)	Corrective Action (as required)
Date 10/20/12	Print Oversight Staff Person Name Sen O'Hare, J. Rakowski	Signature of Oversight Staff Person 	

CPG Sampling Location ID	River Mile	Description of Sampling Location	
UPRO9E	18.4	Gillnet extends from western bank to almost entirely across to island in middle of river	
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
UPRO9E 10/15/12	→ Deploy gillnet at original location		
10/16/12	→ Redeploy		
10/17/12	→ Redeploy		
10/18/12	→ Pull gillnet		
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)
10/16/12	Catch includes: 1 white perch; 1 yellow perch; 1 rock bass; 1 red breast sunfish; 5 carp; & 2 white sucker * All carp & sucker were measured prior to being released back into river	* 2 white Suckers measured: L = (308mm, 322mm) * Carp measured: 2.75 kg / 565mm; 2.7 kg / 537mm; 2 kg / 515mm; 2.25 kg / 570mm; 2.6 kg / 555mm	Total W = 1,050g
10/17/12	Two brown bullheads, One white perch, 5 carp, 1 white sucker Two catfish caught white sucker and carps are released		
10/18/12	2 northern pike, 1 white sucker, & 1 carp	1 northern pike L = 900 mm, W = 5.5 Sucker → L = 472 mm, 120g Carp → L = 520 mm, 185g	
10/19/12	2 carp and 1 brown bullhead catfish * All were released	Carp → 2.6 kg / 560 mm; 2.4 kg / 545 mm Brown Bullhead → 280 mm, 250g	
10/19/12	Sean O'Hare	 Signature of Oversight Staff Person	
Date	Print Oversight Staff Person Name	Signature of Oversight Staff Person	

CPG Sampling Location ID UPR09R	River Mile 19	Description of Sampling Location B footlines extending perpendicular to shoreline. Sandy shoreline which drops off immediately. Vegetation consists of overhanging branches of hickory, willow, & other species.	
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
10/15/12	Deploy footlines just north of Rt. 80 Bridge UPR09R-A (8' footer) UPR09R-B (12' footer) UPR09R-C (12' footer)	Shore drops off immediately in middle of footline	
10/16/12	→ Redeploy		
10/17/12	→ Redeploy		
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)
10/16/12	UPR09R-A → Empty UPR09R-B → 2 brown bullhead catfish UPR09R-C → 3 brown bullhead catfish		
10/17/12	UPR09R - brown bullhead caught and kept		
10/18/12	UPR09R-A → Empty UPR09R-B → 2 brown bullhead catfish UPR09R-C → Empty		
Date	Print Oversight Staff Person Name Sam O'Hare		Signature of Oversight Staff Person 

CPG Sampling Location ID UPR09R	River Mile 19	Description of Sampling Location All 3 trawlines extending perpendicular to shoreline. Sandy shoreline which drops off immediately. Vegetation consists of overhanging branches of hickory, willow, & other species.	
Date of Deployment 10/18/12 → Redeploy trawlines 10/19/12 → Redeploy 10/20/12 → Pull trawlines	Equipment Deployed		Comments on Sampling Location or Deployment
Date of Retrieval 10/19/12	Community Survey and Fish Health UPR09R-A → 1 small brown bullhead catfish (211mm, 120g) UPR09R-B → 1 carp and 2 brown bullhead catfish (355mm, 2800g) (211mm, 102g) UPR09R-C → Empty	Comments on "Catch" or selected receptors Corrective Action (as required)	
10/20/12	UPR09R-A → Could not locate line UPR09R-B → No fish UPR09R-C → No fish		
Date 10/20/12	Print Oversight Staff Person Name Sen O'Hare		Signature of Oversight Staff Person 

CPG Sampling Location ID	River Mile	Description of Sampling Location	
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
UPR10H	19.7	Western Bank of River. Quebrangay willow tree Depth is ~6'	
10/15/12	→ Deploy gillnet at location UPR10H approximately 100' up river from original location		
10/16/12	→ Redeployed		
10/17/12	→ Redeployed		
10/18/12	→ Redeployed		
10/19/12	→ Rollover gillnet		
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)
10/16/12	→ Catch includes: 2 white sucker, 4 pumpkinseed, 3 white perch, 2 brown bullhead catfish, 8 carp, & 4 mirror carp. *Sucker and carp were measured prior to being released	white Sucker → (456mm / 336mm) Carp (8) → 0.45 kg / 585mm; 3.1 kg / 610mm; 2.75 kg / 570mm; 3.15 kg / 609mm; 0.2 kg / 596mm; 0.9 kg / 568mm; 2.5 kg / 565mm	total weight = 1,550g
10/17/12	Two Northern Pike, one Rock Bass, one yellow perch, six white suckers		
10/18/12	1 carp and 1 northern pike	northern pike → 840 mm, 4250g Carp → 560 mm; 2500g	
10/19/12	1 carp and 4 small brown bullhead catfish → Both were released	Carp → 550mm; 2400g brown bullhead → 190mm; 90g	
10/19	Sem O'Hare Print Oversight Staff Person Name		 Signature of Oversight Staff Person

CPG Sampling Location ID	River Mile	Description of Sampling Location	
<p>UPR10G</p>	<p>19.9</p>	<p>Eastern Bank of river. Trees and limbs submerged Depth is ~ 4'</p>	
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
<p>10/15/12</p>	<p>→ Deploy trawlines slightly up river from original location UPR10G-A → Bury in middle of line to keep hooks suspended UPR10G-B → Small hooks UPR10G-C → Large hooks</p>	<p>→ Deploy trawlines slightly up river from original location UPR10G-A → Bury in middle of line to keep hooks suspended</p>	
<p>10/16/12</p>	<p>→ Redeployed</p>		
<p>10/17/12</p>	<p>→ Redeployed</p>		
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)
<p>10/16/12</p>	<p>UPR10G-A → Empty UPR10G-B → 1 brown bullhead catfish UPR10G-C → Empty</p>		
<p>10/17/12</p>	<p>No fish captured</p>		
<p>10/18/12</p>	<p>UPR10G-A → UPR10G-B → 2 brown bullhead catfish UPR10G-C → Empty</p>		
<p>10/18/12</p>	<p>Sam O'Hare</p>	<p></p>	
<p>Date</p>	<p>Print Oversight Staff Person Name</p>	<p>Signature of Oversight Staff Person</p>	

CPG Sampling Location ID	River Mile	Description of Sampling Location	
UPR10G	19.9	Eastern bank of river. Trees & limbs submerged. Depth is ~4'	
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
10/19/12	→ Redeployed trotlines		
10/20/12	→ Pulled trotlines		
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)
10/19/12	UPR10G-A → ^{3 small brown} bullhead catfish UPR10G-B → Empty UPR10G-C → Empty	189mm, 211mm; Total weight = 210g Released back into river	
10/20/12	UPR10G-A → No Fish UPR10G-B → ^{1 brown bullhead} no fish catfish is measured and released UPR10G-C → one carp found - measured, weighed and release		
10/22/12	Sem O'Hare	 Signature of Oversight Staff Person	
Date	Print Oversight Staff Person Name		Signature of Oversight Staff Person

CPG Sampling Location ID	River Mile	Description of Sampling Location	
<p>UPRIOF</p>	<p>20.15</p>	<p>Western Bank of River; just up river from Rt. 9 Bridge. Overhanging willows jutting out over water</p>	
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
<p>10/15/12</p>	<p>→ Deploy trotlines UPRIOF-A → buoy attached to line UPRIOF-B → medium hooks UPRIOF-C → large hooks</p>	<p>so hooks do not lie on riverbed</p>	
<p>10/16/12</p>	<p>→ Redeploy</p>		
<p>10/17/12</p>	<p>→ Redeploy</p>		
<p>10/18/12</p>	<p>→ Redeploy</p>		
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)
<p>10/16/12</p>	<p>UPRIOF-A → Empty UPRIOF-B → Empty UPRIOF-C → Empty</p>		
<p>10/17/12</p>	<p>UPRIOF-A → one bullhead UPRIOF-B → caught UPRIOF-C J.R. 10-17-12</p>		
<p>10/18/12</p>	<p>UPRIOF-A → Empty UPRIOF-B → Empty UPRIOF-C → 1 brownhead bullhead and 1 fish</p>		
<p>10/18/12</p>	<p>Sara O'Hara</p>	<p><i>[Signature]</i></p>	
<p>Date</p>	<p>Print Oversight Staff Person Name</p>	<p>Signature of Oversight Staff Person</p>	

CPG Sampling Location ID	River Mile	Description of Sampling Location	
UPR10F	20.15	Western bank of river, just north of Rt. 4 Bridge Overhanging willows jutting out over water	
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
10/19/12	→ Redeploy trawlines		
10/20/12	→ Pulled trawlines		
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)
10/19/12	UPR10F-A → Empty UPR10F-B → Empty UPR10F-C → 1 small brown bullhead catfish	→ 240mm; 295g	
10/20/12	UPR10F-A → No catch UPR10F-B → 1 brown bullhead catfish UPR10F-C → 1 carp		
Date	Print Oversight Staff Person Name		Signature of Oversight Staff Person
10/20/12	Sen O'Hare		

CPG Sampling Location ID	River Mile	Description of Sampling Location	
UPR100	20.7	Along eastern bank of river. Depth is ~ 6' and gillnet is stretched from bank to middle of river.	
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
10/15/12	Gillnet deployed		
10/16/12	Redeploy		
10/17/12	Redeploy		
10/18/12	Redeploy		
10/19/12	Pulled gillnet		
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)
10/16/12	Catch includes: 1 northern pike; 3 brown bullhead catfish; 1 white sucker, & 10 carp. white sucker & carp were measured prior to being released	Carp: 3 kg / 596mm; 1.85 kg / 570mm; 2.8 kg / 595mm; 3.3 kg / 614mm; 3.2 kg / 582mm; 1.55 kg / 480mm; 2.5 kg / 560mm; 2 kg / 521mm; 2.65 kg / 580mm; 2.25 kg / 530mm white sucker: 1.05 kg / 440mm	
10/17/12			
10/18/12	Catch includes: 1 carp & 1 northern pike Carp & northern pike were measured & weighed prior to being released	1 northern pike → 800mm; 3.75 kg 1 carp → 640mm; 3700g	
10/19/12	Nothing caught in gillnet		
10/19/12	Sen O'Hue		
Date	Print Oversight Staff Person Name	Signature of Oversight Staff Person	

CPG Sampling Location ID	River Mile	Description of Sampling Location	
<p>UPRIOC</p>	<p>20.7</p>	<p>Along eastern bank of river. Several limbs and fallen trees submerged. Depth is ~4'</p>	
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
<p>10/15/12 →</p>	<p>UPRIOC-A } UPRIOC-B } UPRIOC-C } Trotlines Deployed</p>	<p>A - buoy to keep hooks from settling to bottom B - smaller limbs C - larger limbs</p>	<p></p>
<p>10/16/12 →</p>	<p>Redeploy</p>	<p></p>	<p></p>
<p>10/17/12 →</p>	<p>Redeploy</p>	<p></p>	<p></p>
<p>10/18/12 →</p>	<p>Redeploy</p>	<p></p>	<p></p>
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)
<p>10/16/12</p>	<p>UPRIOC-A → 1 brown bullhead UPRIOC-B → 1 brown bullhead UPRIOC-C → Empty</p>	<p>catfish fell off prior to pulling into bag catfish</p>	<p></p>
<p>10/17/12</p>	<p>UPRIOC-A → UPRIOC-B → No fish caught UPRIOC-C →</p>	<p></p>	<p></p>
<p>10/18/12</p>	<p>UPRIOC-A → Empty UPRIOC-B → Empty UPRIOC-C → Empty</p>	<p></p>	<p></p>
<p>10/18/12</p>	<p>Sen O'Hare</p>	<p></p>	
<p>Date</p>	<p>Print Oversight Staff Person Name</p>	<p>Signature of Oversight Staff Person</p>	

CPG Sampling Location ID	River Mile	Description of Sampling Location	
UPR10C	20.7	Along eastern bank of river. Several limbs & fallen trees submerged. Depth is 4'	
Date of Deployment	Equipment Deployed	Comments on Sampling Location or Deployment	Corrective Action (as required)
10/19/12	→ Redeploy trawlines		
10/20/12	→ Pull trawlines		
Date of Retrieval	Community Survey and Fish Health	Comments on "Catch" or selected receptors	Corrective Action (as required)
10/19/12	UPR10C-A → Empty UPR10C-B → Empty UPR10C-C → Empty		
10/20/12	UPR10C-A → Empty UPR10C-B → Empty UPR10C-C → Could not locate line		
Date	Print Oversight Staff Person Name	Signature of Oversight Staff Person	
10/22/12	Sean O'Hara		

Attachment 3
Health Assessment Forms

CPG Sampling Location ID UPR09I	CPG Sampling ID Number UPR09I-0003	Date of Processing 10/10/12	Description of Sample Carp; L = 460 mm W = 1,350 g
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Comment on Individual Fish Health Body Form - Normal; Isthmus - Normal; branchial cavity - normal, eyes had papéye on left side; urogenital opening - normal, mps - normal, frayed fins on dorsal; pectoral; anal, + caudal; normal snout. other than some minor damage caused by gillnet, external looked normal. Normal gills + pseudobranch. <u>Sex: Male</u> Mature containing large quantity of sperm.	Corrective Action (as required)
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Comments on Sample Processing The carp was fully assessed. No abnormalities were observed other than the damage to the fins caused by the gillnet.	Corrective Action (as required)
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Comment on Fish Stomach Content (as required) Stomach is empty; Intestines is normal Gall Bladder is filled with green content	Corrective Action (as required)
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Was sufficient mass available to collect a split sample? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>Minimum tissue mass for split sample is 85 grams.</i>	Requested Analyses <input type="checkbox"/> PCDD/F <input type="checkbox"/> PCB Congeners <input type="checkbox"/> PAH <input type="checkbox"/> Pesticides	<input type="checkbox"/> Metal (including mercury) <input type="checkbox"/> Arsenic <input type="checkbox"/> Methylmercury <input type="checkbox"/> SVOC <input type="checkbox"/> Percent Lipid	Date of split sample shipment to CPG lab
CDM Assigned Sample ID Number			

10/10/12 Date	Sean O'Hare Print Oversight Staff Person Name	 Signature of Oversight Staff Person
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CPG Sampling Location ID UPR09I	CPG Sampling ID Number UPR09I-00024	Date of Processing 10/10/12	Description of Sample Carp L = 560mm ; W = 2,750g	
Comment on Individual Fish Health External Physical Exam: Normal body w/ exception of a spinal abnormality and missing scales / frayed fins most likely due to gillnet. Normal Isthusus, Normal Eyes, Normal branchial cavity, normal urogenital opening, normal anus, normal gills, normal opercle, normal pseudobranch, and is a male.			Corrective Action (as required)	
Comments on Sample Processing Sex female male; contains two long ovaries towards the back of the fish. Contains a good amount of adipose tissue. Could not identify the gall bladder or the spleen. Normal intestine, normal gas bladder. No parasites were identified. Normal soft kidney. * No tumors were identified.			Corrective Action (as required)	
Comment on Fish Stomach Content (as required) Stomach was normal and contained food.			Corrective Action (as required)	
Was sufficient mass available to collect a split sample? <input type="checkbox"/> Yes <input type="checkbox"/> No Minimum tissue mass for split sample is 85 grams.	Requested Analyses <input type="checkbox"/> PCDD/F <input type="checkbox"/> PCB Congeners <input type="checkbox"/> PAH <input type="checkbox"/> Pesticides		Date of split sample shipment to CPG lab	<input type="checkbox"/> Metal (including mercury) <input type="checkbox"/> Arsenic <input type="checkbox"/> Methylmercury <input type="checkbox"/> SVOC <input type="checkbox"/> Percent Lipid
CDM Assigned Sample ID Number				
Date 10/10/12	Print Oversight Staff Person Name 	Signature of Oversight Staff Person 		

CPG Sampling Location ID UPR09E	CPG Sampling ID Number UPR09E-00025	Date of Processing 10/10/12	Description of Sample Carp L = 530mm W = 2,875g
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Comment on Individual Fish Health External Physical Exam: Normal Body form, normal body surface w/ some wounds from gillnet, urogenital opening is inflamed, inflamed anus; frayed fins from gillnet, normal / papery eye, normal gills, normal pseudobranch	Corrective Action (as required)
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Comments on Sample Processing Sex → Mature Female with a bunch of eggs Normal gas bladder, Normal liver, Normal kidney, Normal spleen, Flacid intestine, normal pyloric caeca,	Corrective Action (as required)
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Comment on Fish Stomach Content (as required) * Stomach → Normal w/ food digester * Minimal muscle and adipose tissue. This may have to do with pregnancy.	Corrective Action (as required)
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Was sufficient mass available to collect a split sample? <input type="checkbox"/> Yes <input type="checkbox"/> No Minimum tissue mass for split sample is 85 grams.	Requested Analyses <input type="checkbox"/> PCDD/F <input type="checkbox"/> PCB Congeners <input type="checkbox"/> PAH <input type="checkbox"/> Pesticides <input type="checkbox"/> Metal (including mercury) <input type="checkbox"/> Arsenic <input type="checkbox"/> Methylmercury <input type="checkbox"/> SVOC <input type="checkbox"/> Percent Lipid	Date of split sample shipment to CPG lab
CDM Assigned Sample ID Number		

Date 10/10/12	Print Oversight Staff Person Name Sean O'Hare	Signature of Oversight Staff Person 
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CPG Sampling Location ID UPRO9E	CPG Sampling ID Number UPRO9E-00026	Date of Processing 10/10/12	Description of Sample Carp L = 555 mm; W = 2,300 g
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Comment on Individual Fish Health Normal body form; normal body surface; normal isthmus; normal eyes; normal urogenital opening; normal anus; frayed fins from gillnet; normal snout; normal lips/jaws; normal gills; normal pseudobranch; normal mesenteric fat	Corrective Action (as required)
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Comments on Sample Processing Sex -> Immature Female Normal liver; could not find gall bladder, normal intestine w/ feces present; normal spleen, normal gas bladder; normal kidney; immature ovaries, normal muscle, normal pyloric caeca	Corrective Action (as required)
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Comment on Fish Stomach Content (as required) Normal Stomach - Red liquid is present along with partially digested food	Corrective Action (as required)
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Was sufficient mass available to collect a split sample? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>Minimum tissue mass for split sample is 85 grams.</i>	Requested Analyses <input type="checkbox"/> PCDD/F <input type="checkbox"/> Metal (including mercury) <input type="checkbox"/> PCB Congeners <input type="checkbox"/> Arsenic <input type="checkbox"/> PAH <input type="checkbox"/> Methylmercury <input type="checkbox"/> Pesticides <input type="checkbox"/> SVOC <input type="checkbox"/> Percent Lipid	Date of split sample shipment to CPG lab
CDM Assigned Sample ID Number		

Date 10/10/12	Print Oversight Staff Person Name Sean O'Hare	Signature of Oversight Staff Person 
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CPG Sampling Location ID UPRO9E	CPG Sampling ID Number UPRO9E-CC-027	Date of Processing 10/10/12	Description of Sample Carp L=455 mm; W=1,275g	
Comment on Individual Fish Health External Physical Exam → Normal body; normal body surface, normal lips & jaws, normal snout, normal isthmus, normal eyes, frayed fins from gillnet, normal bronchial cavity, normal urogenital opening, normal anus, normal gills, & normal pseudobranch			Corrective Action (as required)	
Comments on Sample Processing Internal Physical Exam → Normal mesenteric fat, normal liver, full/green bladder, fluid intestine, normal spleen, normal gas bladder (full of air), normal kidney, normal muscle, no tumors, normal pyloric caeca, Sex → Immature Male			Corrective Action (as required)	
Comment on Fish Stomach Content (as required) Normal stomach w/ mucus but empty			Corrective Action (as required)	
Was sufficient mass available to collect a split sample? <input type="checkbox"/> Yes <input type="checkbox"/> No Minimum tissue mass for split sample is 85 grams.	Requested Analyses <input type="checkbox"/> PCDD/F <input type="checkbox"/> PCB Congeners <input type="checkbox"/> PAH <input type="checkbox"/> Pesticides		Date of split sample shipment to CPG lab	<input type="checkbox"/> Metal (including mercury) <input type="checkbox"/> Arsenic <input type="checkbox"/> Methylmercury <input type="checkbox"/> SVOC <input type="checkbox"/> Percent Lipid
CDM Assigned Sample ID Number	Date 10/10/12			Signature of Oversight Staff Person Sean O'Hare

CPG Sampling Location ID UPR09E	CPG Sampling ID Number UPR09E-WS039	Date of Processing 10/10/12	Description of Sample White Sucker L=365mm W=600g	
Comment on Individual Fish Health External Physical Exam -> Normal Body Form, normal snout, normal isthmus, normal eyes, frayed fins from gillnet, normal branchial cavity, normal urogenital opening, normal nose, normal opercle, normal gills, normal pseudobranch,			Corrective Action (as required)	
Comments on Sample Processing Internal Physical Exam -> normal body cavity, normal mesenteric fat, normal liver, could not identify gall bladder, normal intestines w/ feces, normal gas bladder, hemorrhagic kidney, normal muscle, normal (dissolved) pyloric caeca, immature testes. No bones Sex -> Immature Male No Tumors			Corrective Action (as required)	
Comment on Fish Stomach Content (as required) Stomach -> Empty			Corrective Action (as required)	
Was sufficient mass available to collect a split sample? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>Minimum tissue mass for split sample is 85 grams.</i>	Requested Analyses <input type="checkbox"/> PCDD/F <input type="checkbox"/> PCB Congeners <input type="checkbox"/> PAH <input type="checkbox"/> Pesticides		Date of split sample shipment to CPG lab	<input type="checkbox"/> Metal (including mercury) <input type="checkbox"/> Arsenic <input type="checkbox"/> Methylmercury <input type="checkbox"/> SVOC <input type="checkbox"/> Percent Lipid
Date 10/10/12	Print Oversight Staff Person Name Sean O'Hare		Signature of Oversight Staff Person 	

CPG Sampling Location ID UPR09P	CPG Sampling ID Number UPR09P-AND34	Date of Processing 10/12/12	Description of Sample Brown Bullhead Catfish L=105 mm; W=12g
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Comment on Individual Fish Health <u>External Exam</u> → Normal body form, small lesion behind pectoral fin; normal lips/jaws, abrasion on snout, normal isthmus, normal eyes, tear on pectoral fin; normal buccal cavity; normal urogenital cavity; normal anus, small abrasion on tail, normal opercle, normal gills, normal pseudobranch	Corrective Action (as required)
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Comments on Sample Processing <u>Internal Exam</u> → Normal body cavity, no mesenteric fat, normal liver, empty gall bladder; normal intestine w/ feces; normal spleen, normal gas bladder; normal kidney; normal muscle, normal pyloric caeca. Ovaries were not identifiable Sex → Female	Corrective Action (as required)
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Comment on Fish Stomach Content (as required) Normal stomach w/ food	Corrective Action (as required)
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Was sufficient mass available to collect a split sample? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>Minimum tissue mass for split sample is 85 grams.</i>	Requested Analyses <input type="checkbox"/> PCDD/F <input type="checkbox"/> PCB Congeners <input type="checkbox"/> PAH <input type="checkbox"/> Pesticides	<input type="checkbox"/> Metal (including mercury) <input type="checkbox"/> Arsenic <input type="checkbox"/> Methylmercury <input type="checkbox"/> SVOC <input type="checkbox"/> Percent Lipid	Date of split sample shipment to CPG lab
CDM Assigned Sample ID Number			

10/12/12 Date	Sean O'Hare Print Oversight Staff Person Name	 Signature of Oversight Staff Person
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CPG Sampling Location ID UPRO9P	CPG Sampling ID Number UPRO9P-AN033	Date of Processing 10/12/12	Description of Sample Brown Bullhead Catfish L=100 mm ; W=10.6g	
Comment on Individual Fish Health External Exam → Normal body form/surface; normal lips/jaws; normal isthmus, normal eyes, normal fins; normal branchial cavity; normal urogenital opening; normal anus; normal barbels; normal opercle; some parasites on gills; normal pseudobranch			Corrective Action (as required)	
Comments on Sample Processing Internal Exam → Normal body cavity; no mesenteric fat; normal liver, normal intestine w/ feces present; normal kidney; immature ovaries muscle; normal pyloric valve Sex → Immature Female			Corrective Action (as required)	
Comment on Fish Stomach Content (as required) Normal stomach w/ food present			Corrective Action (as required)	
Was sufficient mass available to collect a split sample? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>Minimum tissue mass for split sample is 85 grams.</i>	Requested Analyses <input type="checkbox"/> PCDD/F <input type="checkbox"/> PCB Congeners <input type="checkbox"/> PAH <input type="checkbox"/> Pesticides		Date of split sample shipment to CPG lab	
CDM Assigned Sample ID Number			<input type="checkbox"/> Metal (including mercury) <input type="checkbox"/> Arsenic <input type="checkbox"/> Methylmercury <input type="checkbox"/> SVOC <input type="checkbox"/> Percent Lipid	
Date 10/12/12	Print Oversight Staff Person Name Sam O'Hare		Signature of Oversight Staff Person SO'12	

CPG Sampling Location ID UPRO9E	CPG Sampling ID Number UPRO9E-ASU031	Date of Processing 10/12/12	Description of Sample Brown bullhead catfish L=192mm; W=73g
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Comment on Individual Fish Health <u>External Exam</u> → Normal body form, Swollen left pectoral fin; normal lips/jaws; normal snout; normal isthmus; normal eyes; torn fins (possible damage to gillnet), normal branchial cavity; normal opercular opening; normal gills; normal barbels, normal opercle; dark staining at gills; normal pseudo branch	Corrective Action (as required)
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Comments on Sample Processing <u>Internal Exam</u> → Normal body cavity, no mesenteric fat; normal liver, empty gall bladder; normal intestines, normal spleen; normal gas bladder; normal kidney, immature ovaries, normal muscle, normal pyloric area Sex: Immature Female	Corrective Action (as required)
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Comment on Fish Stomach Content (as required) Normal stomach containing fluid and partially digested food	Corrective Action (as required)
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Was sufficient mass available to collect a split sample? <input type="checkbox"/> Yes <input type="checkbox"/> No Minimum tissue mass for split sample is 85 grams.	Requested Analyses <input type="checkbox"/> PCDD/F <input type="checkbox"/> PCB Congeners <input type="checkbox"/> PAH <input type="checkbox"/> Pesticides	<input type="checkbox"/> Metal (including mercury) <input type="checkbox"/> Arsenic <input type="checkbox"/> Methylmercury <input type="checkbox"/> SVOC <input type="checkbox"/> Percent Lipid	Date of split sample shipment to CPG lab
CDM Assigned Sample ID Number			

10/12/12 Date	Sean O'Hare Print Oversight Staff Person Name	 Signature of Oversight Staff Person
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CPG Sampling Location ID UPR09I	CPG Sampling ID Number UPR09I-AN029	Date of Processing 10/12/12	Description of Sample Brown Bullhead Catfish L = 192 mm; W = 88 g
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Comment on Individual Fish Health Internal Exam → normal body form, lesions behind pectoral fins, normal lips/jaws/snout; normal isthmus, normal eyes, finnet on pectoral & pelvic fin, normal bronchial cavity, normal urogenital opening; normal gills; normal barbels; normal opercle, staining on gills, normal pseudobranch.	Corrective Action (as required)
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Comments on Sample Processing External Exam → normal body cavity; normal mesenteric fat, normal liver, empty gall bladder, normal intestine w/ feces present, normal spleen, normal gas bladder; normal kidney, mature ovaries, normal pyloric caeca Sex → Female	Corrective Action (as required)
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Comment on Fish Stomach Content (as required) Normal stomach w/ food present	Corrective Action (as required)
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Was sufficient mass available to collect a split sample? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>Minimum tissue mass for split sample is 85 grams.</i>	Requested Analyses <input type="checkbox"/> PCDD/F <input type="checkbox"/> PCB Congeners <input type="checkbox"/> PAH <input type="checkbox"/> Pesticides <input type="checkbox"/> Metal (including mercury) <input type="checkbox"/> Arsenic <input type="checkbox"/> Methylmercury <input type="checkbox"/> SVOC <input type="checkbox"/> Percent Lipid	Date of split sample shipment to CPG lab
CDM Assigned Sample ID Number		

10/12/12 Date	Sean O'Hare Print Oversight Staff Person Name	Sean O'Hare Signature of Oversight Staff Person
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CPG Sampling Location ID UPRO9I	CPG Sampling ID Number UPRO9I-AW030	Date of Processing 10/12/12	Description of Sample Brown Bullhead Catfish L=220mm; W=134g
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Comment on Individual Fish Health External Exam → Normal body form, normal body surface, swollen isthmus (possible due to gillnet), normal lips/jaws, normal snout, normal eyes, lesions on right fins (gillnet); normal urogenital area, normal anus, normal barbels, normal opercle, gills are stained, normal pseudobranch	Corrective Action (as required)
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Comments on Sample Processing Internal Exam → Normal body cavity, normal mesenteric fat; normal liver; empty gall bladder; intestines w/ feces present; normal spleen; normal gas bladder; normal kidney; mature ovaries; normal muscle, normal pyloric caeca	Corrective Action (as required)
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Comment on Fish Stomach Content (as required) Normal Stomach full of food	Corrective Action (as required)
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Was sufficient mass available to collect a split sample? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>Minimum tissue mass for split sample is 85 grams.</i>	Requested Analyses <input type="checkbox"/> PCDD/F <input type="checkbox"/> PCB Congeners <input type="checkbox"/> PAH <input type="checkbox"/> Pesticides	<input type="checkbox"/> Metal (including mercury) <input type="checkbox"/> Arsenic <input type="checkbox"/> Methylmercury <input type="checkbox"/> SVOC <input type="checkbox"/> Percent Lipid	Date of split sample shipment to CPG lab
CDM Assigned Sample ID Number			

10/12/12 Date	Sean O'Hare Print Oversight Staff Person Name	Sean O'Hare Signature of Oversight Staff Person
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CPG Sampling Location ID UPRO9I	CPG Sampling ID Number UPRO9I-EL014	Date of Processing 10/18/12	Description of Sample Mature Female Northern Pike L=695mm; W=2,325g
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Comment on Individual Fish Health <u>External Exam</u> → Normal body form; normal body surface/lips/jaws/snout; normal isthmus; normal eyes; minor fraying of pectoral fin/dorsal/anal/caudal; normal branchial cavity w/ trace blood (likely due to gillnet), normal urogenital opening/anus; normal opercle; normal gills (w/ some damage due to gillnet); normal pseudobranch	Corrective Action (as required)
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Comments on Sample Processing <u>Internal Exam</u> → Normal body cavity; normal mesenteric fat; discolored liver, dark green gall bladder which is full, normal intestine & feces, normal spleen, normal gas bladder; normal kidney, mature ovaries; normal muscle, normal pyloric area	Corrective Action (as required)
---	---------------------------------

Comment on Fish Stomach Content (as required) Normal stomach → No contents	Corrective Action (as required)
---	---------------------------------

Was sufficient mass available to collect a split sample? <input type="checkbox"/> Yes <input type="checkbox"/> No Minimum tissue mass for split sample is 85 grams.	Requested Analyses <input type="checkbox"/> PCDD/F <input type="checkbox"/> PCB Congeners <input type="checkbox"/> PAH <input type="checkbox"/> Pesticides	<input type="checkbox"/> Metal (including mercury) <input type="checkbox"/> Arsenic <input type="checkbox"/> Methylmercury <input type="checkbox"/> SVOC <input type="checkbox"/> Percent Lipid	Date of split sample shipment to CPG lab
CDM Assigned Sample ID Number			

Date 10/18/12	Print Oversight Staff Person Name Sean O'Hare	Signature of Oversight Staff Person SOH
------------------	--	--

CPG Sampling Location ID UPRO9E	CPG Sampling ID Number UPRO9E-ELOIS	Date of Processing 10/18/12	Description of Sample Northern Pike (Male) W=1150g L=600mm
---	---	---------------------------------------	--

Comment on Individual Fish Health External Exam Body structure / Surface is normal; normal lips/snout/jaws/eyes; tearing on dorsal fin, caudal fin, pectoral fin, anal fin; smaller than normal gills; normal urogenital fins; normal opercle; normal pseudobranch	Corrective Action (as required)
--	---------------------------------

Comments on Sample Processing Internal Exam → Normal body cavity; normal mesenteric fat; normal spleen; normal full gall bladder; normal liver; normal kidney; male species; normal intestine, normal muscle, mature male	Corrective Action (as required)
---	---------------------------------

Comment on Fish Stomach Content (as required) Normal stomach w/ a whole fish inside. Difficult to tell the fish species inside stomach	Corrective Action (as required)
---	---------------------------------

Was sufficient mass available to collect a split sample? <input type="checkbox"/> Yes <input type="checkbox"/> No Minimum tissue mass for split sample is 85 grams.	Requested Analyses <input type="checkbox"/> PCDD/F <input type="checkbox"/> PCB Congeners <input type="checkbox"/> PAH <input type="checkbox"/> Pesticides <input type="checkbox"/> Metal (including mercury) <input type="checkbox"/> Arsenic <input type="checkbox"/> Methylmercury <input type="checkbox"/> SVOC <input type="checkbox"/> Percent Lipid	Date of split sample shipment to CPG lab
CDM Assigned Sample ID Number		

Date 10/18/12	Print Oversight Staff Person Name Sean O'Hare	Signature of Oversight Staff Person 
-------------------------	---	--

CPG Sampling Location ID UPR09S	CPG Sampling ID Number UPR09S-ED040	Date of Processing 10/18/12	Description of Sample Immature male tessellated darter Length = 65mm; Weight = 2g	
Comment on Individual Fish Health <u>External Exam</u> → Normal body form / body surface / lips & jaws / snout / isthmus / eyes / fins / branchial cavity / urogenital cavity / anus; normal opercle; normal gills; normal pseudobranch; lethargic in behavior			Corrective Action (as required)	
Comments on Sample Processing <u>Internal Exam</u> → Normal body cavity; no mesenteric body fats; could not identify gall bladder; normal intestines & feces; normal spleen; could not identify gas bladder; normal kidney; normal muscle; normal pyloric caeca; & immature testis			Corrective Action (as required)	
Comment on Fish Stomach Content (as required) Normal stomach w/ food present			Corrective Action (as required)	
Was sufficient mass available to collect a split sample? <input type="checkbox"/> Yes <input type="checkbox"/> No Minimum tissue mass for split sample is 85 grams.	Requested Analyses <input type="checkbox"/> PCDD/F <input type="checkbox"/> PCB Congeners <input type="checkbox"/> PAH <input type="checkbox"/> Pesticides <input type="checkbox"/> Metal (including mercury) <input type="checkbox"/> Arsenic <input type="checkbox"/> Methylmercury <input type="checkbox"/> SVOC <input type="checkbox"/> Percent Lipid		Date of split sample shipment to CPG lab	
CDM Assigned Sample ID Number				
Date 10/18/12	Print Oversight Staff Person Name Sean O'Hare	Signature of Oversight Staff Person 		

Attachment 4
Photographs of Field and Laboratory Activities



Photo 1 - Deployment of gillnet



Photo 2 - Deployment of trotline



Photo 3 – Deployment of minnow trap



Photo 4 - Beach Seining at Elmwood Park Boat Ramp



Photo 5 - Removing White Sucker from gillnet



Photo 6 – Smallmouth Bass caught electrofishing



Photo 7 - White Perch



Photo 8 - Channel Catfish caught at gillnet location UPR10D



Photo 9 - Turtle caught on trotline UPR09G-C



Photo 10 - Measuring length of Carp



Photo 11 - Growths on underside of Carp



Photo 12 - Yellow and White Perch



Photo 13 - Processing White Sucker on vessel



Photo 14 - Lowering YSI to capture water quality parameters prior to electrofishing

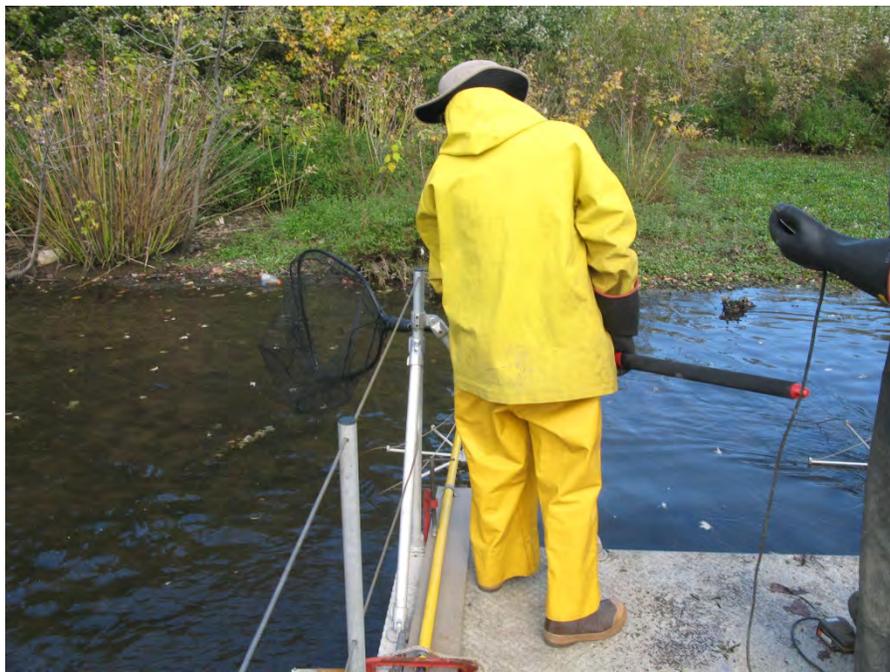


Photo 15 - Electrofishing at location UPR09P



Photo 16 - Processing Northern Pike at CPG facility



Photo 17 – Processing Crayfish at CPG facility



Photo 18 - Weighing Northern Pike at CPG facility



Photo 19 – Processing American Eel at CPG facility



Photo 20 - Health assessment conducted on Brown Bullhead Catfish



Photo 21 - Health assessment conducted on Northern Pike



Photo 22 - Health assessment conducted on Carp

Attachment 5
Copies of Oversight Field Logbook Notes

Fish Study Recon
Upper Passaic River
10/4/12

09:00 → Sean O'Hare (SO)
arrives on Site across from
The Elmwood High School.
(The boat launch)

Weather → Over-cast ~ 70°F
possible showers

* OSI crew arrives on Site
and includes Ryan
and Dustin Leach

* Windward Environmental
includes Suzanne Replinger

09:45 → Board OSI vessel
and head up river to conduct
recon event

10:00 → ~ RM 19.8, Windward
spots first CSO named
"Pipe 1"

10:05 → ~ RM 19.98, second
CSO is observed and named
"Pipe 2"

10:10 → ~ RM 20, third
CSO is observed and named
"Pipe 3"

10:15 → ~ RM 20.2, fourth

Fish Study Recon
Upper Passaic River
10/4/12

10/4/12
F (76)

CSO is observed and named
"Pipe 4"

10:17 → "Pipe 5" is at
RM 20 w/ a diameter of
12" on east side of river

10:20 → "Pipe 6" is at
RM 20.3

10:22 → "Pipe 7" is at
RM 20.4 by house

* Mark "Tributary 1" w/
GPS at ~ RM 20.5

10:25 → "Pipe 8" is at
RM 20.6 w/ a 2 inch diameter
drainage pipe

10:28 → "Pipe 9" is at
RM 20.6

10:30 → Observe another
tributary "Trib-2" at
RM 20.6

10:35 → Observe "Pipe
10" at RM 20.8 on
side of bridge

10:40 → "Pipe 11" at RM
20.9 In addition, there

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(77)

was a 2-inch plastic hose.
At RM 21.1, QSI uses GPS
to mark the park boat launch
10:45 → Mark "Pipe 12"
adjacent to boat ramp. The
pipe is approximately 12 inch
lin diameter.

10:55 → "Pipe 13" at RM 12.5

10:57 → "Pipe 14" at
RM 12.5

11:00 → Arrive just before
Fair Lawn Bridge

11:03 → On west side
of river, observe "Pipe 15"
across street from Home
Depot which is ~ 12 inches

11:05 → Observe "Pipe 16"
which is ~ 1"

11:10 → Check out sediment
location 21C. Substrate
consisted of gravel & rock
total depth is 3.1'

11:18 → Pipe 17 near rapids
on west bank is 18" diameter

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10/4/12

(78)

11:18 → Continue to head
down river in search of
any CSO's or drainage pipe

11:20 → "Pipe 18" is smallest
and at RM 21. Diameter
is 12 inches

11:23 → "Pipe 19" is 2' in
diameter w/ water discharging ^{into} river

11:27 → "Pipe 20" has a 6"
diameter out of building foundation

11:29 → Station of sediment
loc 21G. DTW is 6.2' &
consists of hard rocks.

11:36 → Station of 21F.
DTW is 4.9' & has sandy
gravel substrate.

11:40 → Station of sediment
loc 21E. DTW is 2.8' &
is very sandy

11:45 → "Pipe 23" at RM
20.6. Trace water trickle

11:47 → "Pipe 24" at RM 20.5

11:49 → Station of 21D. Dpth
of water is 5.4' & is sandy

SS 10/4/12

Fish Study Recon
Upper Passaic River 10/4/12

- 11:53 → "Pipe 25" at RM 20.3. Consists of an 18" diameter.
- 11:55 → Benthic station 21C consisting of sands and total depth of 5'
- 12:00 → "Pipe 26" at RM 20. There are seven that appear to drain from bridge
- 12:02 → Station 21B. Total Depth is 4.1'. Substrate is sandy
- 12:06 → "Pipe 27" at RM 19.9
- 12:08 → "Pipe 28" at RM 19.8
- 12:20 → Arrive at station 20E. Total Depth is 3.8 and substrate consists of:
organic silty sand
- 12:25 → "Pipe 29" at RM 19.6
Appears to be a culvert but difficult to see due to overgrown vegetation.

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Fish Study Recon 10/4/12
Upper Passaic River

- 12:28 → "Pipe 30" is observed at RM 19.6
- 12:30 → "Pipe 31" is observed at RM 19.5. Diameter is ~ 18"
- 12:31 → "Pipe 32" is observed and diameter is 12"
- 12:35 → "Pipe 33" is observed and diameter is ~ 5".
Pipe is ~ RM 19.4 and is marked with "City of Patterson"
- 12:37 → RM 19.4 is "Pipe 34" is on west bank of river & is 12" in diameter
- 12:40 → RM 19.1 has Pipe 35 & Pipe 36. Pipe 37 is labeled with City of Patterson
- 12:48 → Pipe 37 consists of several pipes unnumbered 2 bridges at RM 18.8
- 12:50 → Pipe 38 consists of 6' diameter pipe

SO 10/4/12

10/4/12

10/4/12

(81)

- (81)
at RM 18.7 "Pipe 39"
& "Pipe 40" are within
RM 18.7 and consist of a
12 inch & a 6 inch pipe.
12:52 → "Pipe 41" at RM
18.7. Diameter is 1"
12:54 → "Pipe 42" at
RM 18.6
12:56 → "Pipe 43" at RM
18.6
12:58 → "Pipe 44" at RM
18.6
13:02 → "Pipe 45" at RM
18.4
13:20 → Travel down to
RM 17.5

* Line going across is ~
950' off from Dam. OSI
informs Windward that their
vessel may not be able to
get to proposed sediment
locations 18A, 18B, 18H,
18I, 18E, 18J, 18K,
19A, 19J, 19C, 19D, 19K

SB 1/12 10/4/12

- (82)
* Station at 18D. Depth is
less than 1' and substrate
is soft muddy material.
13:32 → Station at 18C.
Depth is 6' and substrate
is hard sand. Approach next
pipe
13:30 → "Pipe 46" at RM
17.5. Diameter is 2.5"
13:35 → "Pipe 47" at
RM 17.6. Diameter is
13:36 → "Pipe 48" at RM 17.8

13:36 → Station at 18F.
Depth is 8.9' and substrate
consists of hard sand

13:40 → Station at 18G.
Depth is 9.5' / Substrate
is a hard sand

13:50 → Station 19B.
Total depth is 11.8'. Substrate
contains soft silt/clay.

14:00 → Get off onto
island just north of

SB 1/12 10/4/12

10/4/12

(83)

The Rt. 46 Bridge and locate sediment location 19k. using hand-held gps. Location is on island. However, Windward may further discuss if location should be moved off of and on island into a more water inundated area.

* QSI attempts to transport vessel over to 19D but it is too shallow. Windward suggests using a jon boat and hopping into water using a pair of waders.

14:20 → "Pipe 49" at RM 18.6 ~ 12"

14:21 → "Pipe 50" at RM 18.7 - 7" by 5". Appears to be some kind of pipe w/br.

14:23 → "Pipe 51" by Rt. 80 Bridge at RM 18.8

14:28 → "Pipe 52" at Rt. 80 Bridge (other side) at RM 18.8

SO ← 10/4/12

10/4/12

(84)

14:30 → At RM 18.9, "Pipe 53" is observed ~ 12" diameter

14:33 → "Pipe 54" is a suspected pipe at RM 19.2. Cannot see pipe but suspect something along those lines.

14:36 → "Pipe 55" is observed at RM 19.4

14:42 → Arrive back at boat launch. SR & SO will drive back to CPG facility to make photocopies and discuss.

15:30 → Discuss strategy for tomorrow and will meet at boat launch around 8 AM.

16:00 → SO departs site en route back to office.

SO
10/4/12

Upper Passaic River
Fish Study Recon

10/5/12

(85)

08:30 → SO arrives on site. Traffic was heavy
Weather → Sunny ~ 80°F
PPE → Level D Modified w/ life vest.

08:40 → Head down river to Dunbar Dam in search of potential fishing location.

08:55 → Will deploy test lines at station 9A at RM

09:04 → Will deploy traps at station 9B at RM

09:11 → Will deploy test lines at station 9C at RM 18.1

* Possible electroshock fishy at RM 17.9 underneath the Garden State Parkway.

* Each station is targeted using a GRS unit.

09:30 → Arrive at location 9D which is ~ RM 18.3
This location is within a hidden cove across

SO → 10/4/12

Upper Passaic River
Fish Study Recon

10/5/12

(86)

from island.

09:32 → Arrive at sediment station 19E. Depth is ~ 14.7' w/ silt substrate.

09:34 → Arrive at location 9E to deploy a potential gill net

09:37 → Arrive at sediment location 19G. Total Depth is 8' w/ sandy substrate

* Windward informs CDM Sault that traps and possible motor pack electrofishing will be conducted in main channel of island.

09:40 → Arrive at sediment location 19F. Depth was 3.4' w/ sandy substrate

In addition, some boat electrofishing may occur on RM 18.5 - 18.8 on the east side of river

09:42 → Sediment location 19L. Depth is 3' w/ silt substrate.

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Upper Passaic River
Fish Study Recon 10/5/12

- ②
09:45 → Arrive at sediment location 19H. Depth is 6' w/ sandy substrate.
09:48 → Arrive at station 9F near dead tree branch. Depth is ~1.5' w/ a rocky substrate.
09:51 → Arrive at station 19M. Depth is 6.4' w/ sandy substrate.
10:00 → Excavate sediment loc 19J. Depth is 4.8' w/ sandy substrate.
10:05 → Arrive at sediment location 20A. Depth is ~11' w/ sandy substrate.
10:10 → Sediment location 20B. Depth is 5.4' w/ sandy substrate.
10:11 → Target fish sampling location 9G. Location is ~RM 19.2 in 8' of water.
10:22 → Sediment sampling location 20E is targeted. Depth is 3' with sandy substrate.

SOZ 10/4/12

Upper Passaic River
Fish Study Area 10/5/12

- ③
sandy substrate.
10:28 → Sediment location 21A. Depth is 6.4' w/ sandy substrate.
10:45 → Target station 10A for deploying traps.
10:50 → Target fish station 10B for deploying traps and electrofishing.
10:57 → Target fish station 10C for deploying ~~trap~~ lines.
11:00 → Target fish station 10D for deploying gillnet.
11:04 → Target fish station 10E for traps.
11:15 → Target fish station 10F for ~~trap~~ lines.
11:16 → Target fish station 10G for ~~trap~~ lines and electrofishing.
11:21 → Target fish station 10H for gill nets.
11:29 → Sediment loc 20D. Depth is 3.6' w/ sandy substrate.

SOZ 10/4/12

(8)

11:30 → Spoke w/ fisherman
at boat launch (Elmwood Park).
Said he has caught largemouth
bass, carp, yellow perch, catfish.

11:31 → Target seining location
right at boat ramp.

11:45 → QSI takes boat out
of water and will launch
boat below dam to continue
performing maintenance on
DO moorings.

12:00 → Drive up to Fairfield
Avenue to determine if it
is possible to collect
sediment sample locating
for new shore.

12:45 → Arrive back at CRB
facility to make copies
of field notes.

13:00 → Depart CRB
facility en route to EDU
office.

~~SO~~
10/4/12

(9)

08:15 → SO arrives at
Elmwood Park boat launch
ASI is on-site setting
up boats. ASI vessels
include the John Batt
and pontoon boat "Schuyler".
ASI personnel include:

Matt Shipelle, Collin
Bill Rothner, Mark Palaver, Windward
employees: Thai Do, Suzanne Replinger,
Sarah Fels, B. Laver, Brim C., & J.H.
Wesler → Over-cast a can

~ 58°F

PPE → Level D Modified interests

08:45 → Windward holds
health & safety meeting to
include pinch points, slips/
trips/falls & staying aware

09:15 → ASI deploys
first gillnet UPROAI at
~ RM

09:30 → ASI & Windward
head down river towards
RM 17.7. Windward

~~SO~~ 10/8/12

Upper Passaic River 10/8/12
Fish Study Recon

(91) begins setting up trotlines and baiting hooks with fish food. SO assists by tying hooks onto trotlines. Each trotline is approximately 100' in length and hooks are spread out every 6'. Each trotline is ~ 60' in length. Trotlines A, B, & C are deployed.

10:30 → Windward finishes deploying last of the three trotlines at location 9A and heads up river to location 9L at RM 19.1

10:45 → Windward begins deploying 3 separate trotlines at 9L (9L-A, 9L-B, 9L-C) in ~ approximately 4' of water.

11:10 → Depart to location 9E and will deploy gillnet. Gillnet goes

Upper Passaic River 10/8/12
Fish Study Recon

(92) across entire length of river, ~ 100' at RM 18.4
11:43 → Reach location 9G at RM 19.2 and deploy trotlines 9G-A, 9G-B, & 9G-C

11:50 → Stop to talk with other vessel. Other vessel will pick up more bricks for buoy lines.

12:10 → Arrive at location 10G at RM 19.9 and drop 3 trotlines (10G-A, 10G-B, & 10G-C). Each trotline is surveyed using GPS unit.

12:30 → A gillnet is deployed at 10H. Depth is ~ 6' at RM

12:45 → ASI drives out to Home Depot to pick up additional bricks. Remaining field crew breaks for lunch.

13:15 → ASI returns

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SO 10/8/12

10/8/12

(93)

w/ additional bricks and crews depart to continue deploying traps.

13:20 → Thai Do (CTD) calls Suzanne Replinger (SR) of Windward to inform that other vessel is experiencing motor trouble.

13:30 → Tow other vessel to boat ramp and take all minnow and eel traps that other crew were going to deploy.

13:45 → Deploy minnow traps at location 10K. Depth is ~ 2.2 at RM 19.6

13:55 → Deploy eel traps at location 10J. Depth is 2.5'. Eel traps 10J-A, B, & C at RM 19.8

14:05 → Deploy trotlines at location 10F (10F-A, 10F-B, & 10F-C). Water depth is 4'.

14:25 → Deploy gillnet

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10/8/12

(94)

line at location 10D. Depth of water is 6' ~ RM 19.7
14:40 → Depart to RM 19.9 and deploy a total of 3 trotlines. Each trotline has 10 hooks and is an average of 60'. Trotline location 10C (10C-A, 10C-B, 10C-C)

15:00 → Depart back to boat ramp.

15:10 → Windward & ASI decide to end the day and will start electroshocking tomorrow.

15:30 → Depart boat ramp to CPG facility to make copies of field notes.

16:00 → Copy field notes and depart back to Edison office.

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09:00 → Arrive at boat ramp and speak with Thi Do, Jenny Love, and Chuck Nace of USEPA.

Thi Do informs SO that Matt Shpelle of ASI will be arriving with the second vessel shortly and will drop SO off at porton vessel.

Weather → Overcast, light rain - 60°F
PPE → Level D Modified w/ lifevest

09:20 → ASI arrives with second vessel and launches boat. SO hops onto vessel and is transported down river to Schuykill.

09:35 → SO boards Schuykill and reports fish that were caught at gillnet location. First trotline location 09A comes up empty. In addition, the first gillnet

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96

location 09I yielded ~ 8 carp, 1 northern pike, 4 white suckers, 1 white perch, & 3 brown bullhead catfish, & 1 mirror carp.

09:55 → Head up river to trotline location 09L. ASI pulls up 09L-A, 09L-B, & 09L-C and all come up empty.

10:15 → Arrive at second gillnet location 09E. Gillnet yields 11 carp, 1 smallmouth bass, 9 white perch, & 7 white sucker.

10:45 → Arrive at trotline location 09G and pull up lines 09G-A, 09G-B, & 09G-C. All lines come up empty.

11:05 → Beach Danton to at boat ramp in Elmwood Park. Take 1 cooler off of vessel and place into van. Take restroom break.

11:25 → Board vessel again

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and head to first gillnet location
in Reach 10 - location 10H
11:30 → Begin pulling up
gillnet at location 10H. Gillnet
yields 2 ~~catfish~~ (1 esop),
3 white suckers, 1 white
perch, and 1 brown bullhead
catfish.

11:50 → Arrive at trotline
location 10G and pull up
all lines. * Note: Bait on all
trotlines are being replaced
with frozen may shrimp and
worms. Original bait included
catfish bait in the shape of
sausage or pepperoni.

UPR10G-A, -B, & -C are
all empty.

12:15 → Arrive at trotline
location 10F and pull up
lines. See below:

UPR10F-A → 1 brown bullhead catfish
1 American eel

UPR10F-B → 1 American Eel

UPR10F-C → Empty

[Signature] 10/19/12

10/19/12

(98)

12:52 → Arrive at location
10C and begin pulling up trot
lines.

UPR10C-A → Empty

UPR10C-B → 1 brown bullhead catfish

UPR10C-C → 1 American eel

13:10 → Pull up gillnet

10D. Approximately 16
white suckers and 1 carp
were collected.

13:30 → Depart back to
bait ramp.

13:50 → Arrive back at bait
ramp. ASI & Windward take
lunch break

14:10 → Arrive back at bait
ramp and begin setting up
electrofishing equipment

14:50 → ASI realizes that
a electrical card which
connects to the generator
is not the correct size.

15:00 → One crew (The Do,
Jenny Love, Chuck Vance, &

[Signature] 10

Upper Passaic River
Fish Survey

10/9/12

ASI crew head down river to use seine net at a second location south of boat ramp. Other crew heads back to CPG facility to begin sample processing.

16:20 → Both crews are back at CPG facility and begin processing fish. Process includes measuring the length & weight of each fish. After measurements have been recorded, the fish is wrapped in aluminum foil and placed on ice.

* Windward has three different crews processing fish. Two people in each crew. One member measures length & weight. The other person records both measurements and wraps fish in aluminum foil.

* Thai Do informs SO that several different

SO 10/9/12

Upper Passaic River
Fish Survey

10/9/12

(100)

Fish were caught in the seining nets including pumpkinseed, bluegill, banded killifish, silver shiner, inland silversides, mosquitofish (*Gambusia*), smallmouth bass, largemouth bass, tessellated darter, grayfish.

18:45 → SO departs facility en route back home. Several photos are taken of different fish species. SO will make copies of Windward's processing sheets.

SO
10/9/12

10/10/12

09:15 → SO arrives at Elmwood Park boat ramp after sitting in traffic for 1 1/2 hours. SO notified Suzanne Replinger of traffic and potentially late arrival. SO calls SR and notifies that he is at boat ramp. SR replies to hang out since field team is checking traps in Reach 10.

09:40 → Pontoon boat 'Schuykill' arrives boat at boat ramp. SO boards and vessel heads down to furthest downstream gillnet location.

10:11 → Arrive at trotline location UPR09A and pull lines to check for fish.
 UPR09A-A → 1 brown bullhead
 UPR09A-B → Empty
 UPR09A-C → Empty
 * Trotline bait was put onto all empty banks.
 Bait included shrimp & power bait.

SO 14 10/10/12

10/10/12

102

UPR10G → C 1 bullhead
 UPR10G - B 2 bullheads
 UPR10G - A 1 bullhead / 1 eel
 Next Reach 10 location
 UPR10F-A → 1 bullhead
 UPR10F-B → Empty
 UPR10F-C → Empty

10:35 → Pull up ~~gillnet~~ ^{gillnet} at location UPR09L. Total yield includes: 1 white perch, 2 carp, 1 smallmouth bass, 4 white suckers, & 3 brown bullhead catfish. *
 Note: The carp will be kept for human health assessment.

10:50 → Approach trotline location UPR09L and check lines.

UPR09L-A → Empty
 UPR09L-B → Empty
 UPR09L-C → Empty

11:10 → Arrive at second gillnet location UPR09E
 Yield includes: 5 white perch

SO 15 10/10/12

Upper Passaic River
Fish Survey

10/10/12

(103)

5 white suckers, & 3 carp.

11:32 → Arrive at trotline location UPR096 and check lines: (Depth is 4' to 7')

UPR096-A → Empty

UPR096-B → Empty

UPR096-C → Empty

11:50 → Approach gillnet location 10H and pull up net.

Total yield includes: 2 carp, 1 smallmouth bass, & 1 white sucker.

* Drainage pipe underneath the Rt 4 Bridge is discharging water into river

12:18 → Arrive at trotline

location UPR10C and check lines

UPR10C-A → 2 brown bullhead catfish

UPR10C-B → Empty

UPR10C-A → Empty

Re-deploy trotlines and re-bait.

12:35 → Approach gillnet location UPR10D. Utteral

SO 10/10/12

Upper Passaic River
Fish Survey

10/10/12

(104)

yield includes 2 channel catfish, 1 carp, & 1 white sucker

13:10 → Arrive back at boat ramp to take restroom break and break for lunch

13:35 → Return from lunch and ASI begins setting up electrofishing equipment

14:20 → Depart from boat ramp and conduct test trials w/ electrofishing equipment.

14:55 → Record water quality

16:12 → Temperature

474 → Conductivity

0.23 → Salinity

8.11 → DO

6.76 → pH

15:00 → Begin electrofishing from RM 19.7 to RM 19.9

15:50 → Electroshocking yields 4 carp. Measurements are listed below:

1.) L = 865 mm; W = 11.3 kg

2.) L = 590 mm; W = 3800 g

SO 10/10/12

Upper Passaic River
Fish Survey

10/10/12

(105)

3.) L = 664 mm, W = 4,000 g

4.) L = 552 mm, W = 2500 g

16:00 → Return to boat ramp
and drive back to CPG
facility to begin processing.

16:30 → Field team begins
processing and performing
health assessments. Refer
to forms for further details.
SO discusses locations that
were seined:

RM 18.3 on west bank in
lagoon, west bank of RM 20.1
and RM 20.6. Various species
collected include spottail shiner,
golden shiner, white sucker,
4 carp, banded killifish,
mosquitofish, smallmouth bass,
bluegill, pumpkinseed, & 1
crayfish. Two processing
teams are measuring and
weighing fish. Other (3rd)
team is performing health
assessments.

SO 10/10/12

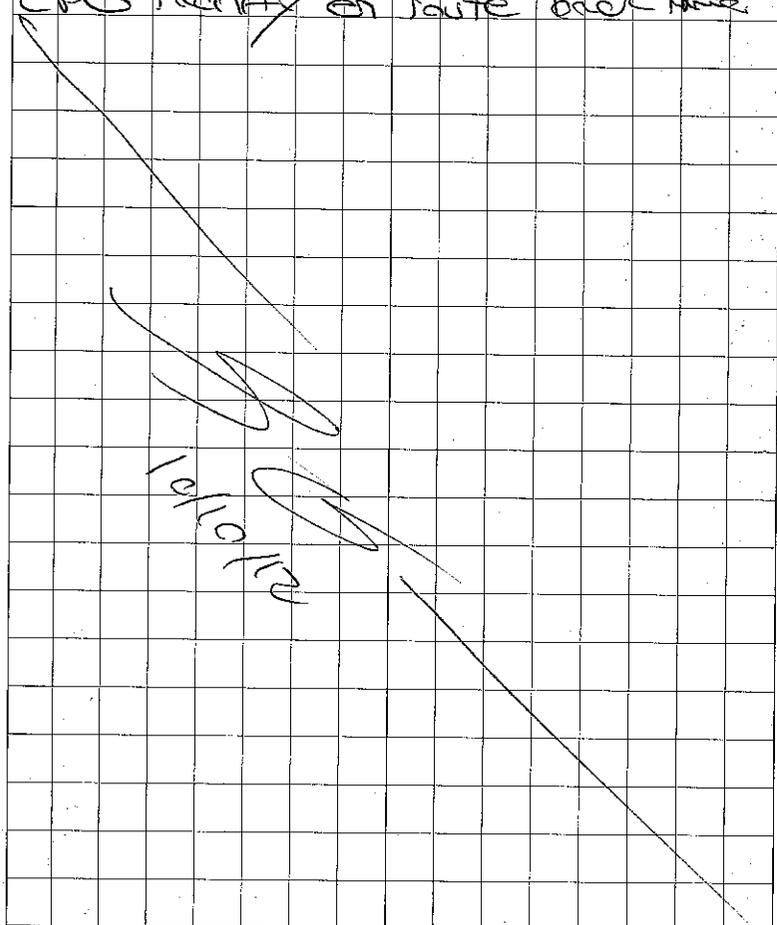
Upper Passaic River
Fish Survey

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(106)

health assessments and 5 white
suckers.

20:20 → Field crew takes
break to eat dinner. SO departs
CPG facility on route back home.



Upper Passaic River
Fish Survey

10/11/12

(107)

07:45 → SO arrives at boat ramp. ASI is currently on-site.

Weather → Chilly - 48° with clear skies.

PPE → Level D Modified w/ life vests.

08:00 → Windward arrives on site and lands supplies onto vessels. The Schuykill will check the trotlines and gillnets.

The 'John Bart' will focus on minnow traps, eel traps and use "hook and line" of various reaches.

08:30 → SO boards Schuykill and heads down river by. On & Health & Safety meeting was held. Topics of concern include: slips / trips / falls, pinch points, & wearing proper PPE.

08:55 → Approach trotline

09A and begins checking

SO 10/11/12

Upper Passaic Fish
Fish Survey

10/11/12

(108)

UPR09A-A → Empty

UPR09A-B → 1 brown bullhead catfish

UPR09A-C → 1 brown bullhead catfish

09:15 → Arrive at gillnet location UPR09I-U

Catch yields 5 white sucker, 2 carp, 1 smallmouth bass,

1 white perch, and 1 brown bullhead catfish. The

5 white sucker and 2 carp will be weighed & measured

Carp 1 → 494 mm, 1900g

Carp 2 → 536 mm, 2300g

Sucker 1 → 430 mm;

Sucker 2 → 335 mm;

Sucker 3 → 338 mm;

Sucker 4 → 384 mm;

Sucker 5 → 450 mm

} 3500g

09:30 → Arrive at trotline location UPR09L and check lines

UPR09L-A → Empty

UPR09L-B → Empty

UPR09L-C → Empty

09:40 → Approach gillnet

SO 10/11/12

Upper Passaic River
Fish Survey

10/11/12

(109)

location 09E. Yield includes 1
carp, & 2 white perches
Carp → 467 mm; 1600g
10:10 → Arrive at trotline
location UPR09G and check
lines

UPR09G-A → Empty
UPR09G-B → Empty
UPR09G-C → Unknown Turtle

Several photos were taken
and research will look
determine the turtle type.

The hook and line were
successfully removed from
the turtle's mouth / jaw.

10:30 → Navigate to UPR10H
and pull up gillnet. Total yield
includes: 2 carp, 2 sucker,
& 2 bullhead (brown) catfish

Carp → 2.8 kg, 555 mm; 203/550
Sucker → Total → 1700; 402/433 mm

10:44 → Arrive at trotline
location UPR10G and check
lines:

SO ✓ 10/11/12

Upper Passaic River
Fish Survey

10/11/12

(110)

UPR10G-A → 1 brown bullhead catfish

UPR10G-B → empty

UPR10G-C → 1 brown bullhead catfish

11:00 → Navigate up-river
to trotline location UPR10F

UPR10F-A → Unknown turtle

UPR10F-B → Empty

UPR10F-C → Empty

Turtle was photographed
and released back into river.

11:30 → Arrive at trotline
location UPR10C and check line

UPR10C-A → Empty

UPR10C-B → 1 brown bullhead catfish

UPR10C-C → Empty

11:45 → Approach gillnet location
UPR10D and check net. Total
yield is 3 carp. Measurements
were recorded below.

Carp 1 - 1.7 kg; 483 mm

Carp 2 - 2.35 kg / 550 mm

Carp 3 - 2.75 kg / 550 mm

12:05 → Depart back to
camp.

SO ✓ 10/11/12

10/11/12

(11)
12:45 → Windward decides to stop electrofishing and head back to CPG facility to begin processing fish.

13:30 → Arrive back at CPG facility and take small break prior to organizing fish.

14:00 → Begin processing fish at CPG facility. Fish being processed were collected from minnow traps, eel traps, gill nets, & trotlines. Species include 2 bluegill, pumpkinseed, white perch, brown bullhead catfish & smallmouth bass.

16:45 → Windward field crew completes processing fish collected today. The charts of Custodies (CAC's) are printed out and are checked against the samples to make sure both match up.

18:00 → Windward are finishing up. SO departs site.

SO → 10/11/12

10/12/12

(12)
07:55 → SO arrives on boat and boards w/ supplies.

Weather → Partly cloudy
~50°F

PPE → Level D Modified w/ life vests.

08:25 → Navigate down river to trotline location

UPR09A: Yield is below:

UPR09A-A → Empty

UPR09A-B → Empty

UPR09A-C → 1 brown bullhead catfish

08:50 → Arrive at gillnet location UPR09I. Yield is:
3 white sucker, 1 white perch, 3 brown bullhead catfish, and 2 carp

Carp 1 → 346mm

Sucker 338mm } 1500g (total)

Sucker 335mm

Carp 1 → 520mm; 2kg

Carp 2 → 564mm; 2.4kg

09:15 → Approach trotline location UPR09L and

SO → 10/12/12

Upper Passaic River
Fish Survey

10/12/12

(113)

check lines
UPR09L-A → Empty
UPR09L-B → Empty
UPR09L-C → Empty
09:26 → Arrive at gillnet area
and check: Yield is 2
white perch, 1 brown bullhead
catfish, 1 carp, & 4 white suckers
Carp & sucker measured
prior to being released

Carp 1 → 532 mm; 2000g
Sucker 1 → 420 mm
Sucker 2 → 348 mm
Sucker 3 → 368 mm } 3050g
Sucker 4 → 428 mm

09:45 → Arrive at location
UPR09G and check trotline
UPR09G-A → Empty
UPR09G-B → Empty
UPR09G-C → Empty

10:20 → Navigate up-
river to gillnet location
UPR10H Yield
1 channel catfish,

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Upper Passaic River
Fish Survey

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(114)

1 carp, & 3 white suckers.
The carp & white suckers
were measured and weighed
prior to being released.

Carp → 447 mm; 1400g
Sucker 1 → 460 mm
Sucker 2 → 360 mm } 2,700g
Sucker 3 → 456 mm } (total)

10:55 → Arrive at trotline
location UPR10G and
pull lines.

UPR10G-A → Empty
UPR10G-B → Empty
UPR10G-C → Empty

11:15 → Arrive at trotline
UPR10F and pull up lines.

UPR10F-A → Empty
UPR10F-B → Empty
UPR10F-C → Empty

& Windward switched power
bait with shrimp.

11:30 → Arrive at trotline
location UPR10C and
check all lines.

SO 10/12/12

Upper Passaic River
Fish Survey

10/12/12

(115)
UPR10C-A → Empty
UPR10C-B → 1 American eel
UPR10C-C → Empty

11:50 → Arrive at trotline location UPR10D. Yield includes 2 carp, 2 white sucker, and 1 northern pike.
* Fish assessments are performed on fish below:

Carp 1 → 2.6 kg; 545 mm
Carp 2 → 2.5 kg; 540 mm
Sucker 1 → 443 mm
Sucker 2 → 444 mm 31950g

12:05 → Navigate back down to boat ramp.

12:15 → Take a quick lunch break and begin hooking up electroshock equipment.

12:40 → Arrive at RM 19.1

Temperature → 14.27°C

Conductivity → 533

Salinity → 0.26

DO → 9.07

pH → 5.87

SO → 10/12/12

Upper Passaic River
Fish Survey

10/12/12

(116)

Begin electroshocking on western bank of river starting from RM 19.0 going down river. ~~12:40~~ ~~12:45~~ begins electroshocking in and around shore.

UPR09O yields include 11 pumpkinseed, 2 red breasted sunfish, 3 carp, 2 bluegill, and 1 shiner. All three carp are measured and weighed. See measurements listed below:

Carp → 1.75 kg; 492 mm

Carp → 2.25 kg; 525 mm

Carp → 1.10 kg; 473 mm

13:40 → Arrive at next electroshocking location UPR09P at RM 18.4

Temp → 15.08°C

Conductivity → 516 mS/cm

Salinity → 0.25 ppt

DO → 10.31 mg/L

pH → 6.17

* Location is near RM 18.4 on western side of island

SO → 10/12/12

10/12/12

(17) Yield includes: 2 brown bullhead catfish, & 2 carp. The carp were weighed & measured prior to being released. Measurements below:
Carp 1 - 2.75 kg, 565 mm
Carp 2 - 2.5 kg, 570 mm

14:00 -> Complete electrofishing and target location using GPS unit. Vessel travels driver back to boat launch.

14:20 -> Arrive back at boat launch and unload supplies. ASI will meet back tomorrow at 8 AM.

15:00 -> SO arrives back at CRG facility to begin sample processing. 3 health assessments will be conducted on the brown bullhead catfish. Other fish will be processed and placed into freezer. Refer to health assessment forms for further details.

SO 10/12/12

10/12/12

(18) Thai Do informs SO that ASI attempted to catch fish using the rod and reel method. However, no fish were collected using this method. Several species of fish were caught using minnow traps and eel traps, including pumpkinseed, bluegill, tessellated darter, & shiner.

16:40 -> Windward is still processing fish

19:00 -> Windward complete processing fish and review chains to all samples being sent out to Alpha Laboratories tomorrow.

19:45 -> SO departs CRG facility en route back home. SO will meet at Elmwood High School boat launch tomorrow at 08:30 AM.

SO 10/12/12

10/13/12

Fish Survey

08:40 → SO arrives on Site
ASJ is currently setting up.
Windward is getting supplies
onto both vessels.

Weather → Clear skies,
cool ~ 42°F

PPE → Level D Modified
w/ lifevest

09:00 → Arrive at trotline
location UPR09A to check
and pull lines.

UPR09A-A → Empty

UPR09A-B → Empty

UPR09A-C → 1 brown bullhead catfish

09:15 → Navigate to gillnet
location UPR09I and pull
net. Yield includes:

1 northern pike, 2 white perch,
3 white perch, & 2 carp

W. Sucker 1 → 455 mm

W. Sucker 2 → 362 mm } 195g

W. Sucker 3 → 322 mm

Carp 1 → 2 kg, 522 mm

Carp 2 → 1.7 kg, 498 mm

SO → 10/13/12

10/13/12

(120)

Approach trotline location
UPR09L to check and pull
lines:

UPR09L-A → Empty

UPR09L-B → Empty

UPR09L-C → Empty

09:30 → Arrive at location

gillnet UPR09E and check/
pull net. Yield includes: 4 carp,
1 white sucker, and 1 white perch

Measurements include:

Carp 1 → 2.4 kg; 530 mm

Carp 2 → 2.7 kg; 535 mm

Carp 3 → 2.7 kg; 558 mm

Carp 4 → 2.3 kg; 560 mm

White Sucker 378 mm; 600 grams

10:03 → Arrive at location

to check and pull trotlines

UPR09G

UPR09G-A → Empty

UPR09G-B → Empty

UPR09G-C → Empty

10:10 → Arrive at gillnet

location UPR10H. Yield

SO → 10/13/12

10/13/12

(2)

includes: 5 carp, 1 white sucker, 1 northern pike, and 2 brown bullhead catfish. All 5 carp are weighed & measured prior to being released. See below:

Carp 1 → 2.4 kg / 530mm

Carp 2 → 1.9 kg / 530mm

Carp 3 → 4.1 kg / 671mm

Carp 4 → 4.15 kg / 690mm

Carp 5 → 500g / 125mm

10:30 → Arrive at trawl line location UPR10E to deck/pull

UPR10E-A → Empty

UPR10E-B → Empty

UPR10E-C → Empty

0:37 → Arrive at trawl line

location UPR10E to deck/pull

UPR10E-A → Empty

UPR10E-B → Empty

UPR10E-C → Empty

Roller vessel checked trawls

UPR10C to pull.

UPR10C-A → 1 brown bullhead catfish

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(122)

UPR10C-B → Empty

UPR10C-C → Empty

10:50 → Approach gillnet location

UPR10D. Yield is 1 carp

Carp 1 → 554mm, 3.15 kg

Carp 2 → 50 10/13/12

10:55 → Depart back to boat ramp.

11:15 → Arrive back at boat ramp and unload supplies off boat.

11:20 → Windward departs back to CR6 facility to process fish. SQ departs site

10/13/12

Upper Passaic River
Fish Survey

10/15/12

Upper Passaic River
Fish Survey

10/15/12

(123)

08:05 → SO arrives at Elmwood Park Boat ramp. ASI is on-site launching john-boat.

Weather → Over-cast ~ 68°F
PPE → Level D Modified with life vests

08:30 → ASI holds health & safety briefing. Topics of concern include: slips/trips/falls; sharp points such as hooks; & wearing proper PPE.

09:00 → Arrive at trotline location UPR09A and deploy three lines ~ RM

UPR09A-A → Deployed

UPR09A-B → Deployed

UPR09A-C → Deployed

09:30 → Deploy ^{at} ~~location~~ ^{location} UPR09I which is approximately 100' south of BSP Bridge extending from eastern side of

SO → 10/15/12

(124)

island going into river.

09:35 → Approach the Rt. 46 Bridge and Windward is moving trotline location UPR09L on eastern bank of river to new location UPR09Q on western bank of river. (2/18/12)

09:40 → Deploy trotlines along western bank which are deployed perpendicular to shore and are approximately 80' apart from each other.

UPR09Q-A → Deployed using large hooks

UPR09Q-B → Deployed using small hooks

UPR09Q-C → Deployed using buoy in middle of line so hooks do not lay on floor. Windward will observe each method and determine if one works better than the other. Due to the new location Windward navigates to the center point of each line and records coordinates using hand-held GPS unit.

SO → 10/15/12

10/15/12

(125)
10:13 → Deploy gillnet at original location UPR09E.

10:15 → Take a small break before heading up river to UPR09R.

10:20 → Deploy trotlines at location UPR09R. This is a new location which was originally UPR09G last week. New trotline location RM 19 on western bank UPR09R-A → Deployed using buoy UPR09R-B → Deployed using small UPR09R-C → Deployed using floats. Windward collects coordinates of each new trotline from the center.

10:55 → Deploy gillnet at location UPR10H. Location is moved very slightly (~100') up river from original location. However, it is in the same area.

11:05 → Deploy trotlines

~~802~~ 10/15/12

10/15/12

(126)

at location UPR10G slightly up-river from original location

UPR10G-A → Buoy in middle of line

UPR10G-B → Small hooks

UPR10G-C → Large hooks

11:25 → Pull up to next trotline location UPR10F which is

in same area and deploy lines

UPR10G-A → Buoy in middle of line

UPR10G-B → Small hook

UPR10G-C → Large hook

11:50 → Approach trotline location

UPR10C

UPR10C-A → Buoy attached to middle

UPR10C-B → Smaller hooks

UPR10C-C → Larger hooks

12:00 → Deploy gillnet at location UPR1100 which is slightly down river from last week's location.

12:05 → Depart down river to Elmwood boat ramp.

12:15 → Arrive back at Elmwood Park boat ramp

~~802~~ 10/15/12

Upper Passaic River
Fish Survey

10/15/12

(127)

md take lunch break. Windward
will discuss if electrofishing
will be possible due to work

13:30 → Arrive at location

Temperature → 14.4°C

Salinity → 0.33

Conductivity → 7.7 uS/cm

pH → 7.17

DO → 9.03

UPRIOX

13:35 → Begin electrofishing

Cap 1 → 3.2 kg, 610 mm

Cap 2 → 3.0 kg, 615 mm

Cap 3 → 3.3 kg, 595 mm

Cap 4 → 3.8 kg, 645 mm

Cap 5 → 3.3 kg, 625 mm

Cap 6 → 3.7 kg, 640 mm

Cap 7 → 3.3 kg, 65 mm

Cap 8 → 2.4 kg, 585 mm

3 bluegill, 3 pumpkinseed,

1 moron eel, 1 rock

bass, & 1 oriental carp (white in color)

14:05 → Record water quality at UPRIOX

14.58 → Temperature

7.22 → Conductivity

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Upper Passaic River
Fish Survey

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(128)

0.35 ppt → Salinity

9.55 → Dissolved O₂

7.3 → pH

14:10 → UPRIOX at RM 20A

Begin electrofishing. Yield
includes: 1 brown bullhead, 1
3 pumpkinseed, & 8 red breasted
sunfish.

14:30 → Complete electrofishing
at UPRIOX. My help down to
boat ramp. Boat activities
are finished for the day.

14:45 → Depart boat ramp
en route to CPG facility to
process fish.

15:00 → Begin processing
fish. SO examines and
Windward processes fish.

16:00 → Complete processing
Ornamental Cap → 510 mm

16:30 → Windward finishes
for day. SO departs CPG
facility en route back home.

SS 12 10/15/12

10/16/12

(129)
08:10 → SO arrives on Site and gets ready w/ supplies. ASL is currently getting equipment together and re-fueling.

PPE → Level D Modified w/ life vest

Weather → Windy w/ some clouds ~ 58°F

08:30 → ASL holds health & safety briefing. Topics of concern include pinch points, slips/trips/falls & staying hydrated.

08:40 → Navigate downstream to trotline location UPR09A

UPR09A-A →

UPR09A-B → 1 brown bullhead catfish

UPR09A-C →

09:00 → Arrive at gillnet location UPR09I. Yield

includes: 2 northern pike, 4 carp, & 4 white suckers. White suckers

and 4 carp were measured prior to being released.

10/16/12
S.O.

10/16/12

(130)
White suckers → 345, 356, 490

Total weight is 2,050g

Carp → 1.8 kg, 419 mm; 1.75 kg, 500

2.05 kg; 520 mm; 1.9 kg, 470 mm

09:20 → Navigate to next trotline location UPR09Q

UPR09Q-A → Empty

UPR09Q-B → 1 channel catfish

UPR09Q-C → 9^{g+} at line
1 american eel

09:45 → Navigate to gillnet location UPR09E. Yield

includes: 1 white perch; 1 yellow perch; 1 rock bass; 2

redbreast sunfish, 5 carp, & 2 white sucker

Carp → 2.75 kg; 565 mm; 2 kg/

515 mm; 2.25 kg, 570 mm;

2.7 kg / 537 mm, 2.6 kg /

555 mm

White Sucker → 368 mm, 372 mm &

a combined weight of 1.05 kg

10:20 → Navigate to next trotline location UPR09R

and check lines.

80/12

Upper Passaic River
Fish Survey

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(13)

UPR09R-A → Empty
UPR09R-B → 2 brown bullhead catfish
UPR09R-C → 3 brown bullhead catfish

10:35 → Approach gillnet location UPR10H. Catch includes: 2 white suckers.

Measurements → 456 mm, 336 mm w/ a combined weight of 1,550g.
1 pumpkin seed, 3 white perch, 1 brown bullhead catfish, 8

carp & 1 mirror carp
Carp measurements below:

- Carp 1 → 2.45 kg; 585 mm
- Carp 2 → 3.1 kg; 610 mm
- Carp 3 → 2.75 kg; 572 mm
- Carp 4 → 3.15 kg; 629 mm
- Carp 5 → 2.2 kg; 596 mm
- Carp 6 → 2.95 kg; 557 mm
- Carp 7 → 2.9 kg; 568 mm
- Carp 8 → 2.5 kg; 565 mm

1 mirror carp → 596 mm; 2500g

11:05 → Arrive at location UPR10G and check trap lines.

UPR10G-A → 1 brown bullhead catfish
Empty

SO 10/16/12

Upper Passaic River
Fish Survey

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(132)

UPR10G-B → ~~Empty~~ brown bullhead catfish

UPR10G-C → Empty

11:20 → Arrive at next trapline location UPR10F

UPR10F-A → Empty

UPR10F-B → Empty

UPR10F-C → Empty

11:40 → Arrive at next trapline location UPR10C and check lines.

UPR10C-A → 1 brown bullhead catfish
~~advised fell out prior to release~~

UPR10C-B → 1 brown bullhead catfish

UPR10C-C → Empty

12:05 → Check gillnet at location UPR10B. Please see totals below:

Measurement of 1 white sucker 440 mm; 1050g → Total Weight

Measurement of 10 carp:

- 3 kg / 596 mm; 1.85 kg / 570 mm;
- 2.8 kg / 595 mm; 3.3 kg / 614 mm;
- 3.2 kg / 582 mm; 1.55 kg / 480 mm;
- 2.5 kg / 560 mm; 2.1 kg / 521 mm;
- 2.65 kg / 580 mm; 2.25 kg / 530 mm.

SO 10/16/12

10/16/12

(133)
2 Carp & white suckers were released back into river. Total catch included: 1 northern pike, 3 brown bullhead catfish, 1 white sucker, & 10 carp.

12:20 → Arrive back at Elmwood boat ramp and take lunch break.

12:50 → Arrive back from lunch and ASI begins setting up electrofishing equipment.

13:30 → Depart boat ramp en route to electrofishing location UPR10Y at RM 20.0.

13:40 → Begin electrofishing UPR10Y by making 1 pass. Catch includes:

1 carp → 3.2 kg; 610 mm;
1 smallmouth bass, 2 bluegill,
3 redbreast sunfish, and
1 pumpkinseed. Approximately 5 carp were observed but could not be caught.

14:00 → Approach electrofish

80 ← 10/16/12

10/16/12

(134)
location UPR10X and begin electrofishing. Yield catch includes: 10 sunfish, 12 smallmouth bass, observed ~ 15 carp and 1 Mexican eel that could not be netted.

14:20 → Go back to electrofishing location UPR10Y and begin electrofishing. Yield includes: 17 sunfish and 1 small largemouth bass. Observed 3 carp.

14:35 → Head back up to UPR10X and attempt second trial. Yield includes: 1 pumpkinseed, 1 redbreast sunfish, & 1 carp.

Carp 1 → 730 mm; 5,250g
15:10 → Arrive at UPR10Z and begin electrofishing at RM 19.6.

Yield includes 1 shiner, 1 tessellated darter, 26

80 ← 10/16/12

Upper Passaic River
Fish Survey

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(135)

pumpkinseed, 5 bluegill,
Coordinates are recorded
at this new electroshock
location. at RM 19.6

15:27 → Navigate down
river to electroshock
location UPR090 and begin
shocking. at RM . Yield
includes: 1 mercur eel, 1
shiner, 12 sunfish, & 1 cap.
Cap was measured prior to being
released; L = 634 mm; 3500g

16:00 → Arrive back at Elburn
boat ramp and depart to CPG
facility.

16:35 → Begin processing at
CPG facility. Tai Do informs
SQ that a rock bass and
sunfish was caught on rod and
reel today. Many forage
fish were caught in minnow
traps / eel traps including:
bluegill, pumpkinseed, American
eel, tessellated darter, shiner,

Upper Passaic River
Fish Survey

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(136)

& rock bass.

17:00 → SQ oversees fish
sample processing.

19:00 → SQ departs CPG
facility en route to office
to transfer field forms, camera
& log book to Jeff Patowski
who will take over recovery
of logbook.

10/16/12

Upper Passaic River
Fish Survey

10/18/12

(37)

08:10 → SO arrives at Elmwood Park boat ramp and gets ready to board vessel.

Weather → Clear skies, ~ 65°F

PPE → Level D Modified w/ life vest

08:30 → ASI holds a health & safety briefing. Topics of concern include: slips/trips/falls; staying hydrated, and sharp points.

08:40 → Depart to trotline location UPR09A furthest downstream.

UPR09A-A → Empty

UPR09A-B → 1 channel catfish

UPR09A-C → 1 brown bullhead catfish

09:00 → Arrive at gillnet location UPR09I and check. Catch includes: 1 smallmouth bass, 6 brown bullhead catfish, 1 northern pike.

09:25 → Arrive at trotline location UPR09Q and check all three lines.

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Fish Survey

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(38)

UPR09Q-A → 2 brown bullhead catfish

UPR09Q-B → Empty

UPR09Q-C → Empty

09:40 → Arrive at gillnet location UPR09E. Catch includes: 2 northern pike, 1 white sucker, and 1 carp

10:00 → Arrive at trotline location UPR09R and check lines:

UPR09R-A → Empty

UPR09R-B → ~~Empty~~ 2 brown bullhead catfish

UPR09R-C → Empty

10:15 → Arrive at gillnet location UPR10H and check. Catch includes: 1 carp and 1 northern pike.

10:30 → Arrive at trotline location UPR10G and check lines.

UPR10G-A → Empty

UPR10G-B → 2 brown bullhead catfish

UPR10G-C → Empty

10:45 → Arrive at UPR10F and check all 3 trotlines:

UPR10F-A → Empty

SO  10/18/12

UPRIOF-B → Empty
 UPRIOF-C → 1 brown bullhead out of
 10:55 → Arrive at trotline
 location UPRIOC and check line
 UPRIOC-A → Empty
 UPRIOC-B → Empty
 UPRIOC-C → Empty
 11:10 → Arrive at gillnet location
 Catch includes 4 carp and
 1 northern pike. (UPRIOB)
 Carp → L=640mm; W=3700g
 Northern Pike → L=800mm; W=3750g
 11:30 → Arrive back at
 Elmwood Park and break
 for lunch
 12:15 → Depart boat ramp
 and take water quality parameters:
 Temperature →
 Conductivity → 670
 DO → 8.85 mg/L
 pH → 7.78
 12:35 → Arrive at new
 electroshock location
 UPRIOAA and begin electroshock
 (RM 20.05)

SO 10/18/12

shocking. No fish are caught.
 ASI believes the water may be
 too deep for electroshocking
 to work.
 12:50 → Navigate up-river to
 electroshock location UPRIOA
 Temp → 12.55
 Conductivity → 679
 pH → 7.98
 DO → 10.56
 * Catch includes: 2 small
 bass, 4 american eel, 1 pumpkin
 & 1 redbreast sunfish
 13:25 → Arrive at new electroshock
 location UPRIOBB and collect water
 Temperature → 13.6°C
 Conductivity 530
 Dissolved O₂ → 13.75
 pH → 8.63
 13:30 → Begin electroshock
 at UPRIOBB at RM 20.85
 under bridge. Note: There are
 drainage pipes in area but
 there is nothing being

SO 10/18/12

(41)

discharged. Catch includes
3 american eel.
13:45 → Navigate back down to
UPR10 ~~X~~ ^{to UPR10} and make second attempt
at electroshocking. Catch includes
5 american eel, 1 brown bullhead
catfish (335g), 4 pumpkinseed,
1 bluegill, red breast sunfish, 1
crappie, & 1 rock bass.

The 4 pumpkinseeds weigh a
total of 127g. Smallest is
104mm and largest is 152mm.

The 1 ~~bluegill~~ ^{red breast sunfish} weighs
52g; length 112mm

All pumpkinseed and redbreast
sunfish were weighed/measured
prior to being released.

14:10 → Finish electroshocking
at UPR10 & head down
to the Garden State Parkway
Bridge at RM

14:35 → Arrive near
UPR090 and collect water
quality parameters:

~~SO~~ 10/18/12

(42)

14.05°C → Temperature
702 → Conductivity
9.26 → Dissolved Oxygen
7.85 pH

Begin electrofishing under
Garden State Parkway Bridge
around supports. Catch includes
17 pumpkinseed, 2 rock bass,
18 redbreast sunfish, 1 small
bass, and 2 american eel.

Measurements are below:

Pumpkinseed → Total weight of 140g

Small is 55mm, Large is 115mm

Rock bass → Total weight is 156g

Lengths → 115mm; 160mm

Red Breast → Total weight is 642g

Large is 135mm, Small is 109mm

→ All brown bullhead catfish
from under 350g which were
still alive were released (~10
catfish). 7 from Reel 9 and
3 from Reel 10 were released

15:10 → Arrive at electroshock
location UPR90 and

~~SO~~ 10/18/12

Fish Survey

Take water quality parameters:

Temperature → 13.99

Conductivity → 531

DO → 10.76

pH → 8.15

* Electroshock includes:

1 bluegill → 22g; 115mm;

1 pumpkinseed

15:30 → Head back to boat ramp and unload cooler & supplies. Activities are finished for the day.

15:45 → SO departs boat ramp en route to CPB facility.

16:00 → SO arrives boat at CPB facility. Windward gets ready to begin processing.

16:30 → Start processing fish

One group will process the target species while the other group will be conducting health assessments on 2 northern pike and 1 tessellated darter. Refer to field

S-O 10/18/12

Fish Survey

forms for further details.

18:00 → All health assessments have been completed for fish caught today. Windward continues to process fish: weigh each; measure each; and wrap in aluminum foil and into freezer.

The following species below: channel catfish, smallmouth bass, american eel, largemouth bass, white perch, yellow perch, and my brown bullhead catfish over 300g will be kept for fish processing going forward.

5 spottail shiner; 5 pumpkinseed; 5 bluegill, 5 redbreast sunfish, and 3 northern pike were evaluated during health assessments yesterday.

* Windward informs SO that all eel/minnow traps have been pulled today. Gill nets will be pulled tomorrow and trotlines will be pulled in

S-O 10/18/12

(145)
Saturday morning. *Note: The
giant American Leel weighed 300g
and measured 868 mm.

19:00 → Windward completes
processing and departs CPG
facility. SO completes all
field forms and departs CPG
facility en route home.

10/18/12

08:15 → SO arrives on Site
at Elmwood Boat ramp. Traffic
was heavy due to rain showers.

ASI and Windward employees:
Suzanne Replinger; Jenny Lacey;
Sarah Fowler; Jess Huybrechts,
& Brian Clark

Weather → Raining ~ 65°F
PPE → Level D Modified with
life jacket

08:30 → ASI holds health
& safety meeting. Topics of
concern include being on
the lookout for thunder and
lightning; slips/trips/falls;
and staying hydrated. ASI
members include Matt Shappell &
Colin Dubinski

08:35 → Arrive at trotline
location UPRO9A & check lines

UPRO9A-A → 1 brown bullhead fish (1080g)

UPRO9A-B → Empty

UPRO9A-C → Empty

08:50 → Straighten up to

SO 10/19/12

(147)

gillnet location UPR09I. Catch includes 1 northern pike (522mm; 850g) which is released after being measured (see above). This gillnet is pulled and will not be redeployed for the remainder of the event.

08:57 → Navigate to next trotline location UPR09Q and check all three lines:
UPR09Q-A → 1 american eel
UPR09Q-B → 1 brown bullhead (>450g)
UPR09Q-C → 1 brown bullhead catfish which is >450g; fish kept

09:14 → Check gillnet location UPR09E. Catch includes:
2 carp and 1 brown bullhead catfish (<450g); so it is released

09:34 → Arrive at last trotline location within Reach 9 and check all lines:
UPR09R-A → 1 small brown bullhead; released
UPR09R-B → 1 carp; 2 brown bullhead catfish
UPR09R-C → Empty
* On B line 1 brown bullhead is released while other is kept for processing.

SO ← 10/19/12

(148)

gillnet is pulled
09:57 → Arrive at gillnet location UPR10H. Catch includes: 1 carp and 1 small brown bullhead catfish which are both released after being measured and weighed.

10:06 → Arrive at trotline location UPR10G and check lines:
UPR10G-A → 0 small brown bullhead catfish → released
UPR10G-B → Empty
UPR10G-C → Empty

10:22 → Arrive at trotline location UPR10F & check lines:
UPR10F-A → Empty
UPR10F-B → Empty
UPR10F-C → 1 small brown bullhead catfish which is released

10:39 → Arrive at UPR10C and check all three lines:
UPR10C-A → Empty
UPR10C-B → Empty
UPR10C-C → Empty

10:53 → Arrive at gillnet location UPR10D and tally

SO ← 10/19/12

10/19/12

(149)
includes: No fish. This
gillnet was pulled for the
remainder of the fish survey.

11:15 → Arrive back at boat
ramp and decide to leave
early for lunch since a storm
is passing through with heavy
winds. Electrofishing will be
determined when and if rain stops.

3:30 → Winward makes decision
to end for the day since rain
is continuing through afternoon.

13:45 → Depart boat ramp and
drive back to CPB facility

14:10 → Arrive back at CPB
facility to process fish
and catch up on notes:

14:20 → Begin processing fish
including 3 brown bullhead
catfish and 1 american eel.

14:50 → Winward completes
processing fish and begins
to tally fish for Alpha
to pick up samples

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10/19/12

(150)

from CPB facility tomorrow
morning

15:00 → SO departs facility
en route home. Winward
will complete final day of
fish survey and will send
out samples + row for lab
to pick up.

~~SOE
10/19/12~~

134 Location Lower Passaic R Date 9/19/12
Project / Client DO Monitoring Event
USACE → LPR

Ramp. OSI will pull boat
out of water and head back
home. SO is en route to
office. A summary of
activities observed will be
produced along with passing
photos.

9/19/12

0920 Pg. 135 095 266, 1wp,
5 carp, 1w3 Captured.
Processor release white sucker
10-17-12

135 Location Lower Passaic River Date 10-17-12
Project / Client USACE

J. Nelson

PPE: Modified level D
Weather: 40° Fahrenheit
Personnel: JR (consmith) Aqua
Survey, windward
objective: Collection of fish
on the UPR

0800 JR arrives onsite
0820 Aqua Survey checking lines
at 09-A-C | brown bullhead
caught.

0855 A white sucker
is caught. A carp is
caught. The white sucker
is thrown back into the
water. The carp is
thrown back into the
water at 091.

0910 Arrive at location
9Q. No fish found on
line. No fish caught
at 09Q.

0920 Arrive at 09E
~~The northern pike are caught~~
and kept. 10-17-12

R 10-17-12

Location Lower Passaic River Date 10-17-12

Project / Client

USACE

J. Kulkarni

A perch is caught and kept. Two catfish caught and kept. Aqua Survey. Moft Shoppell, Collins, Bryan, Windward, Sara, Suzanne, 0935 Carps caught at 09E are released.

0945 Check

5 Carps, 1 white sucker, one white perch, one brown bull head at 9E. Sucker and carps were released.

Arrive at 9R.

1000 Brown bull head caught. Arrive at 10H + 0 check gillnet. Several fish were caught and kept. 2NP, 1RB, 1YP, 6WS

1020 Arrive at 10G to check trotlines. Nothing caught at 10G.

1030 Arrive at 10F and check trotline? -
10-17-12

Lower Passaic River Date 10-17-12

Project / Client

USACE

J. Kulkarni

one brown bull head caught
1110 Arrive at 10C
1125 Arrive at Elmwood for boat ramp for lunch break.
1205 Arrive back on boat at Elmwood launch.
1210 Currently waiting for equipment from the other team.

1225 Boat launches

1235 Electro shocking for

10-17-12 shocking begins

at 102. (fish summary will be provided on separate sheet)

1315 Electro-shocking begins at UPR 10P-A2

1329 finish electro shock at 10P caught 4 small bluegill catch and release.

1336 begin electro shocking

09U
1351 finish electro shocking

19nb, 14ps, 6nl, 10rb, 1ws, 1bg

1407 Start electro shock at

09W.

10-17-12

Location Lower Passaic River Date 10-17-12Project / Client USACEJ. Rakowski414 finish electro shocking
several Carp observed422 begin electro shocking
at 090445 90 electro Shock Complete
2 eel, 4 RB, 21 rbs, 14 PS, 16b, 15 smb456 start electro shock at 90
finish electro shocking collect
1 eel, 6 rbs, 7 smb, 4 PS,
2 rb, sunfish1513 finish electro shocking
at 901524 begin electro shocking
at 102

1700 J.R. departs site

J.R.
10-17-12Location Lower Passaic River Date 10-20-12¹³⁹Project / Client USACEJ. Rakowski

APE Modified Level D

Weather: 50° farenheight

Personnel: AECOM, Jeff Rakowski,
(COM Smith), windwardobjective: Collection of fish,
pull up traps

0800 JR arrives onsite

0830 take off from Elmwood park

boat ramp to head toward Dundee Dam

0840 Arrive at Dundee Dam
to check trotline, 09A-C10

No fish found at 09A-C10

0845 Check 09A-B10 ←

No fish

0847 No fish found at
09A-C10

0855 Check 09Q-C5 - No fish

0900 09Q-B5

- 1 large eel on line

0905 09A-A10¹⁰⁻²⁰⁻¹² C5 - No fish

0910 09-R-C5 - No fish

09-R-B5 - No fish

0915 Could not locate 09R-A5

0920 Check 10G-B10 line

10-20-12

Location Lower Passaic River Date 10-20-12Project / Client USACEJ. Nakamura

- 0925 1 bullhead found, measured, set free
check 10G-C10 line
- 0930 Check 10G-A10 line
- 0935 Check 10F-C10 line - one
Carp found
- 0940 10F-B10' - 1 bullhead
weighing 600 grams
- 0945 10F-A10 No fish
- 0950 10C-B10 - No fish
" " C10 - no fish
A10 - could not locate buoy
- 1050 Arrive at Elmwood dock
to setup for electro-
fishing
- 1140 Suzanne took Gravity boating
Company for a tour of the
river. Gravity will be performing
upcoming sediment work.
- 1140 boat launches from Elmwood
dock to head upstream for
electro-shocking
- 1150 Boat stops at bridge downstream
of Dundee Dam to collect
water quality measurements.
- B.R. 10-20-12

Location Lower Passaic Date 10-20-12Project / Client USACEJ. Nakamura

- 1159 begin electro-shocking at
9U-A4 - no fish found
- 1200 Steering on boat breaks
A.J. (ASI) determines that the
steering box is damaged.
- 1300 Arrive back at dock and
offload equipment.
- 1335 Depart site
- * Note 1 eel and 1 bullhead
caught today

J.R.10-20-12

10/5/12

11:30 → Spoke w/ fisherman
at boat launch (Elmwood Park).
Said he has caught largemouth
bass, carp, yellow perch, catfish,

11:31 → Target seining location
right at boat ramp.

11:45 → QSI takes boat out
of water and will launch
boat below dam to continue
performing maintenance on
DO moorings.

12:00 → Drive up to Fairfield
Avenue to determine if it
is possible to collect
sediment sample locating
for near shore.

12:45 → Arrive back at CRB
facility to make copies
of field notes.

13:20 → Depart CRB
facility en route to EDU
office.

~~SO~~
10/4/12

10/5/12

08:15 → SO arrives at
Elmwood Park boat launch
ASI is on-site setting
up boats. ASI vessels
include the job boat
and pontoon boat "Schuyler".
ASI personnel include:

Matt Shipelle, Collin
Bill Rothner, Mark Palaver, Winward
employees: Thai Do, Suame Rplige,
Sarah Fabs, B. Love, Brim C., J.H.
Weather → Over-cast & cool
~ 58°F

PPE → Level D Modified interests

08:45 → Winward holds
health & safety meeting to
include pinch points, slips/
trips/falls & staying aware

09:15 → ASI deploys
first gillnet UPROAI at
~ RM

09:30 → ASI & Winward
head down river towards
RM 17.7. Winward

~~SO~~ 10/8/12

Upper Passaic River 10/8/12
Fish Study Recon

begins setting up trot-
lines and baiting hooks
with fish food. SO
assists by tying hooks
onto trot-lines. Each trot-
line is approximately 100'
in length and hooks are
spread out every 6'.
Each trotline is ~ 60'
in length. Trotlines A, B, &
C are deployed.

10:30 → Winward finishes
deploying last of the three
trotlines at location 9A
and heads up river to
location 9L at RM 19.1

10:45 → Winward begins
deploying 3 separate
trotlines at 9L (9L-A,
9L-B, 9L-C) in ~
approximately 4' of water.

11:10 → Depart to location
9E and will deploy
gillnet. Gillnet goes

SO 10/8/12

Upper Passaic River 10/8/12
Fish Study Recon

across entire length of
river, ~ 100' at RM 18.4
11:43 → Reach location
9G at RM 19.2 and deploy
trotlines 9G-A, 9G-B, &
9G-C

11:50 → Stop to talk
with other vessel. Other
vessel will pick up more
bricks for buoy lines

12:10 → Arrive at location
10G at RM 19.9 and drop
3 trotlines (10G-A, 10G-B,
& 10G-C). Each trotline is
surveyed using GPS unit.

12:30 → A gillnet is
deployed at 10H. Depth
is ~ 6' at RM

12:45 → ASI drives
out to Home Depot to
pick up additional bricks.
Remaining field crew brews
for lunch.

13:15 → ASI returns

SO 10/8/12

Upper Passaic River
Fish Study Recon

10/8/12

w/ additional bricks and
crews depart to continue
deploying traps.

13:20 → Thni Do (CTD)
calls Suzanne Replinger (SR)
of Windward to inform that
other vessel is experiencing
motor trouble.

13:30 → Tow other vessel
to boat ramp and take all
minnow and eel traps that other
crew were going to deploy.

13:45 → Deploy minnow traps
at location 10K. Depth is
~ 2.2 at RM 19.6

13:55 → Deploy eel traps
at location 10J. Depth
is 2.5'. Eel traps
10J-A, B, & C at RM 19.8

14:05 → Deploy trot lines
at location 10F (10F-A,
10F-B, & 10F-C). Water
depth is 4'.

14:25 → Deploy gillnet

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Upper Passaic River
Fish Study Recon

10/8/12

line at location 10D. Depth
of water is 6' ~ RM 19.7
14:40 → Depart to
RM 19.9 and deploy a total
of 3 trotlines. Each trotline
has 10 hooks and is an
average of 60'. Trotline
location 10C (10C-A, 10C-B,
10C-C)

15:00 → Depart back to
boat ramp.

15:10 → Windward & ASI
decide to end the day and
will start electroshocking
tomorrow.

15:30 → Depart boat ramp
to CPG facility to make
copies of field notes.

16:00 → Copy field notes
and depart back to Edison
office.

SO ← 10/8/12

Upper Passaic River
Fish Study Recon

10/9/12

09:00 → Arrive at boat ramp and speak with Thai Do, Jenny Love, and Chuck Nace of USEPA.

Thai Do informs SO that Matt Shpelle of ASI will be arriving with the second vessel shortly and will drop SO off at porton vessel.

Weather → Overcast, light rain - 60°F

PPE → Level D Modified w/ lifevest

09:20 → ASI arrives with second vessel and launches boat. SO hops onto vessel and is transported down river to Schuykill.

09:35 → SO boards Schuykill and reports fish that were caught at gillnet location.

First trotline location 09A comes up empty. In addition, the first gillnet

SO 10/9/12

Upper Passaic River
Fish Study Recon

10/9/12

location 09I yielded ~ 8 carp, 1 northern pike, 4 white suckers, 1 white perch, & 3 brown bullhead catfish, & 1 mirror carp.

09:55 → Head up river to trotline location 09L. ASI pulls up 09L-A, 09L-B, & 09L-C and all come up empty.

10:15 → Arrive at second gillnet location 09E. Gillnet yields 11 carp, 1 smallmouth bass, 9 white perch, & 7 white sucker.

10:45 → Arrive at trotline location 09G and pull up lines 09G-A, 09G-B, & 09G-C. All lines come up empty.

11:05 → Beach Porton boat at boat ramp in Elmwood Park. Take 1 cooler off of vessel and place into van. Take restroom break.

11:25 → Board vessel again

SO 10/9/12

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and head to first gillnet location
in Reach 10 - location 10H

11:30 → Begin pulling up
gillnet at location 10H. Gillnet
yields 2 ~~carp~~ (1 esop),
3 white suckers, 1 white
perch, and 2 brown bullheads
catfish.

11:50 → Arrive at trotline
location 10G and pull up
all lines. *Note: Bait on all
trotlines are being replaced
with frozen may shrimp and
worms. Original bait included
catfish bait in the shape of
sausage or pepperoni.

UPR10G-A, -B, & -C are
all empty.

12:15 → Arrive at trotline
location 10F and pull up
lines. See below.

UPR10F-A → 1 brown bullhead catfish
1 American eel

UPR10F-B → 1 American Eel

UPR10F-C → Empty

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10/19/12

12:52 → Arrive at location
10C and begin pulling up trot
lines.

UPR10C-A → Empty

UPR10C-B → 1 brown bullhead catfish

UPR10C-C → 1 American eel

13:10 → Pull up gillnet
10D. Approximately 16
white suckers and 1 carp
are collected.

13:30 → Depart back to
boat ramp.

13:50 → Arrive back at boat
ramp. ASI & Windward take
lunch break

14:10 → Arrive back at boat
ramp and begin setting up
electrofishing equipment.

14:50 → ASI realizes that
a electrical card which
connects to the generator
is not the correct size.

15:20 → One crew (The Do,
Jerry Love, Chuck Stone, &

SO 10

Upper Passaic River
Fish Survey

10/9/12

ASI crew head down river to use seine net at a second location south of boat ramp. Other crew heads back to CPG facility to begin sample processing.

16:20 → Both crews are back at CPG facility and begin processing fish. Process includes measuring the length & weight of each fish. After measurements have been recorded, the fish is wrapped in aluminum foil and placed on ice.

* Windward has three different crews processing fish. Ten people in each crew. One member measures length & weight. The other person records both measurements and wraps fish in aluminum foil.

* Thai Do informs SO that several different

SO → 10/9/12

Upper Passaic River
Fish Survey

10/9/12

Fish were caught in the seining nets including pumpkinseed, bluegill, common killifish, silver shiner, inland silversides, mosquitofish (*Gambusia*), smallmouth bass, largemouth bass, tessellated darter, crayfish.

18:45 → SO departs facility en route back home. Several photos are taken of different fish species. SO will make copies of Windward's processing sheets.

SO
10/9/12

09:15 → SO arrives at Elmwood Park boat ramp after sitting in traffic for 2 1/2 hours. SO notified Suzanne Replinger of traffic and potential late arrival. SO calls SR and notifies that he is at boat ramp. SR replies to hang out since field team is checking traps in Reach 10.

09:40 → Pinty boat "Schylkill" arrives back at boat ramp. SO boards and vessel heads down to furthest downstream gillnet location

10:11 → Arrive at trotline location UPR09A and pull lines to check for fish.

UPR09A-A → 1 brown bullhead

UPR09A-B → Empty

UPR09A-C → Empty

* Trotline bait was put onto all empty hooks. Bait included shrimp & power bait.

SO 12 10/10/12

UPR10G → C 1 bullhead

UPR10G - B 2 bullheads

UPR10G - A 1 bullhead / 1 eel

Next Reach 10 location

UPR10F-A → 1 bullhead

UPR10F-B → Empty

UPR10F-C → Empty

10:35 → Pull up ~~gillnet~~ ^{gillnet} ~~set~~ ^{set} at location UPR09L. Total

yield includes: 1 white perch, 2 carp, 1 smallmouth bass, 4 white suckers, & 3 brown bullhead catfish. * Note: The carp will be kept for human health assessment.

10:50 → Approach trotline location UPR09L and check lines

UPR09L-A → Empty

UPR09L-B → Empty

UPR09L-C → Empty

11:10 → Arrive at second gillnet location UPR09E

yield includes: 5 white perch

SO 13 10/10/12

Upper Passaic River
Fish Survey

10/10/12

5 white suckers, & 3 carp.
11:32 → Arrive at trotline
location UPR096 and check
lines: (Depth is 4' to 7')
UPR096-A → Empty
UPR096-B → Empty
UPR096-C → Empty
11:50 → Approach gillnet
location 104 and pull up net.
Total yield includes: 2 carp,
1 small mouth bass, & 1
white sucker.

* Drainage pipe underneath
the Rt 41 Bridge is dis-
charging water into river

12:18 → Arrive at trotline
location UPR10C and check lines
UPR10C-A → 2 brown
bullhead catfish
UPR10C-B → Empty
UPR10C-A → Empty
Re-deploy trotlines and re-
bait.

12:35 → Approach gillnet
location UPR10D. Total

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Upper Passaic River
Fish Survey

10/10/12

yield includes 2 channel catfish,
1 carp, & 1 white sucker.
13:10 → Arrive back at boat
ramp to take restroom break
and break for lunch.
13:35 → Return from lunch
and ASI begins setting up
electrofishing equipment.
14:20 → Depart from boat
ramp and conduct test trials
w/ electrofishing equipment.
14:55 → Record water quality
16:10 → Temperature
47.4 → Conductivity
0.23 → Salinity
8.11 → DO
6.76 → pH
15:00 → Begin electrofishing
from RM 19.0 to RM 19.9
15:50 → Electroshocking
yields 4 carp. Measurements
are listed below:
1.) L=565mm; W=11.3kg
2.) L=590mm; W=3800g

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Upper Passaic River
Fish Survey

10/10/12

Upper Passaic River
Fish Survey

10/10/12

3.) L = 664 mm, W = 4,000 g

4.) L = 552 mm, W = 2500 g

16:00 → Return to boat ramp
and drive back to CPG
facility to begin processing.

16:30 → Field team begins
processing and performing
health assessments. Refer
to forms for further details.

SO discusses locations that
were seined:

RM 18.3 on west bank in
lagoon, west bank of RM 20.1
and RM 20.6. Various species

collected include spottail shiner,

golden shiner, white sucker,

capn banded killifish,

mosquitofish, smallmouth bass,

bluegill, pumpkinseed, & 1

crayfish. Two processing

teams are measuring and

weighing fish. Other (3rd)

team is performing health

assessments. 23 camp

SG 10/10/12

health assessments and 5 white
suckers.

20:20 → Field crew takes
break to eat dinner. SO departs
CPG facility en route back home.

10/10/12

Upper Passaic River
Fish Survey

10/11/12

07:45 → SO arrives at boat
ramp ASI is currently on-
site.

Weather → Chilly - 48° with
clear skies.

PPE → Level D Modified w/
lifevests.

08:00 → Windward arrives on
site and lands supplies onto
vessels. The Schuykill will
check the trotlines and gillnets.
The 'John Boat' will focus
on minnow traps / eel traps
and use "hook and line" of
various recedes.

08:30 → SO boards Schuykill
and heads down river by DM
& Health & Safety meeting
was held. Topics of concern
include: slips / trips / falls,
pinch points, & wearing
proper PPE.

08:55 → Approach trotline
09A and begins checking.

SO 10/11/12

Upper-Passaic Fish
Fish Survey

10/11/12

UPRO9A-A → Empty

UPRO9A-B → 1 brown bullhead catfish

UPRO9A-C → 1 brown bullhead catfish

09:15 → Arrive at gillnet
location UPRO9I. Catch
yields 5 white sucker, 2
cray, 1 smallmouth bass,
1 white perch, and 1
brown bullhead catfish. The
5 white sucker and 2
cray will be weighed & measured.

Cray 1 → 494 mm, 1900g

Cray 2 → 536 mm, 2307g

Sucker 1 → 430 mm,

Sucker 2 → 335 mm;

Sucker 3 → 338 mm;

Sucker 4 → 384 mm;

Sucker 5 → 450 mm

} 3500g

09:30 → Arrive at trotline
location UPRO9L and dock lines.

UPRO9L-A → Empty

UPRO9L-B → Empty

UPRO9L-C → Empty

09:40 → Approach gillnet

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Upper Passaic River
Fish Survey

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location 09E. Yield includes 1
carp, & 2 white perches

Carp → 467 mm; 1600g

10:10 → Arrive at trotline
location UPR09E and check
lines

UPR09E-A → Empty

UPR09E-B → Empty

UPR09E-C → Unknown Turtle

Several photos were taken
and research will look
determine the turtle type.

The hook and line were
successfully removed from
the turtle's mouth.

10:30 → Navigate to UPR10H
and pull up gillnet. Total yield
includes: 2 carp, 2 sucker,
& 2 bullhead (brown) catfish

Carp → 2.8 kg, 555 mm; 2.03 kg

Sucker → Total → 1700; 492/483 mm

10:44 → Arrive at trotline
location UPR10G and check
lines:

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Fish Survey

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UPR10G-A → 1 brown bullhead catfish

UPR10G-B → empty

UPR10G-C → 1 brown bullhead catfish

11:00 → Navigate up-river
to trotline location UPR10F

UPR10F-A → Unknown turtle

UPR10F-B → Empty

UPR10F-C → Empty

Turtle was photographed
and released back into river.

11:30 → Arrive at trotline
location UPR10C and check lines

UPR10C-A → Empty

UPR10C-B → 1 brown bullhead catfish

UPR10C-C → Empty

11:45 → Approach gillnet location
UPR10D and check net. Total
yield is 3 carp. Measurements
were recorded below.

Carp 1 - 1.7 kg; 483 mm

Carp 2 - 2.35 kg / 550 mm

Carp 3 - 2.75 kg / 550 mm

12:05 → Depart back to
camp.

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Upper Passaic River
Fish Survey

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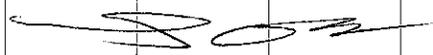
12:45 → Windward decides to
stop electrofishing and head
back to CPG facility to begin
processing fish.

13:30 → Arrive back at CPG
facility and take small break
prior to organizing fish.

14:00 → Begin processing fish
at CPG facility. Fish being
processed were collected
from minnow traps, eel traps,
gill nets, & trotlines. Species
include: bluegill, pumpkinseed,
white perch, brown bullhead catfish
& smallmouth bass.

16:45 → Windward field crew
completes processing fish
collected today. The charts
of Custodies (CAC's) are
printed out and are checked
against the samples to
make sure both match up.

18:00 → Windward are
finishing up. SO departs
site.

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Upper Passaic River
Fish Survey

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12:45 → Windward decides to stop electrofishing and head back to CPG facility to begin processing fish.

13:30 → Arrive back at CPG facility and take small break prior to organizing fish.

14:00 → Begin processing fish at CPG facility. Fish being processed were collected from minnow traps, eel traps, gill nets, & trotlines. Species include 2 bluegill, pumpkinseed, white perch, brown bullhead catfish, & smallmouth bass.

16:45 → Windward field crew completes processing fish collected today. The Chain of Custodies (COC's) are printed out and are checked against the samples to make sure both hold up.

18:00 → Windward are finishing up. SO departs site.

~~SO~~ 10/11/10

Upper Passaic River
Fish Survey

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07:55 → SO arrives on boat and boards w/ supplies.

Weather → Partly cloudy
~50°F

PPE → Level D Modified w/ life vests.

08:25 → Navigate down river to trotline location

UPR09A: Yield is below:

UPR09A-A →

UPR09A-B →

UPR09A-C →

08:50 → Arrive at gillnet location UPR09I. Yield is:

3 white sucker, 1 white perch, 3 brown bullhead catfish, and 2 carp

Sucker 346mm } 1500g (total)
Sucker 338mm }
Sucker 335mm }

Carp 1 → 520mm; 2kg

Carp 2 → 564mm; 2.4kg

09:15 → Approach trotline location UPR09L and

~~SO~~ 10/12/10

Upper Passaic River
Fish Survey

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check lines

UPR09L-A → Empty

UPR09L-B → Empty

UPR09L-C → Empty

09:26 → Arrive at gillnet 09E

and check: Yield is 2
white perch, 1 brown bullhead
catfish, 1 carp, & 4 white sucker.

Carp & sucker measured
prior to being released

Carp 1 → 532 mm, 2000g

Sucker 1 → 420 mm

Sucker 2 → 348 mm

Sucker 3 → 368 mm

Sucker 4 → 428 mm

} 3050g

09:45 → Arrive at location

UPR09G and check trotline

UPR09G-A → Empty

UPR09G-B → Empty

UPR09G-C → Empty

10:20 → Navigate up-

river to gillnet location

UPR10H Yield

1 channel catfish,

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Upper Passaic River
Fish Survey

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1 carp, & 3 white sucker.

The carp & white sucker
were measured and weighed
prior to being released.

Carp → 442 mm, 1400g

Sucker 1 → 460 mm

Sucker 2 → 360 mm

Sucker 3 → 456 mm

} 2,700g
(total)

10:55 → Arrive at trotline

location UPR10G and

pull lines.

UPR10G-A → Empty

UPR10G-B → Empty

UPR10G-C → Empty

11:15 → Arrive at trotline

UPR10F and pull up lines.

UPR10F-A → Empty

UPR10F-B → Empty

UPR10F-C → Empty

& Windward switched power

bait with shrimp.

11:30 → Arrive at trotline

location UPR10C and

check all lines.

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UPR10C-A → Empty
UPR10C-B → 1 American eel
UPR10C-C → Empty

11:50 → Arrive at trotline
location UPR10D. Yield
includes 2 carp, 2 white
sucker, and 1 northern pike.

* Fish assessments are
performed on fish below:

Carp 1 → 2.6 kg; 545 mm

Carp 2 → 2.5 kg; 540 mm

Sucker 1 → 443 mm; 1950 g

Sucker 2 → 444 mm; 1950 g

12:05 → Navigate back
down to boat ramp.

12:15 → Take a quick
lunch break and begin hooking
up electroshock equipment.

12:40 → Arrive at RM 19.1

Temperature → 14.27°C

Conductivity → 533

Salinity → 0.26

DO → 9.07

pH → 5.87

SO → 10/12/12

Upper Passaic River
Fish Survey

10/12/12

Begin electroshocking on
western bank of river starting
from RM 19.0 going down
river to RM 18.4. ASD begins
electroshocking in mid river stretch.

UPR09O → Yields include
11 pumpkinseed, 2 red breasted
sunfish, 3 carp, 2 bluegill,
1 shiner. All three carp

are measured and weighed.
See measurements listed
below:

Carp → 1.75 kg; 492 mm

Carp → 2.25 kg; 525 mm

Carp → 1.10 kg; 473 mm

13:40 → Arrive at next elect
fishing location UPR09P at RM 18.4

Temp → 15.08°C

Conductivity → 516 mS/cm

Salinity → 0.25 ppt

DO → 10.31 mg/L

pH → 6.17

* Location is near RM 18.4
on western side of island

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Upper Passaic River
Fish Survey

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Yield includes: 2 brown bullhead catfish, & 2 carp. The carp are weighed & measured prior to being released. Measurements below:

Carp 1 → 2.75 kg; 565 mm

Carp 2 → 2.5 kg; 570 mm

14:00 → Complete electrofishing and target location using GPS unit. Vessel travels driver back to boat launch.

14:20 → Arrive back at boat launch and unload supplies. ASI will meet back tomorrow at 8 AM.

15:00 → SO arrives back at CP6 facility to begin sample processing. 5 health assessments will be conducted on the brown bullhead catfish. Other fish will be processed and placed into freezer. Refer to health assessment forms for further details.

SO 10/12/12

Upper Passaic River
Fish Survey

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Thai Do informs SO that ASI attempted to catch fish using the rod and reel method. However, no fish were collected using this method. Several species of fish were caught using minnow traps and eel traps, including pumpkinseed, bluegill, tessellated darter, & shiner.

16:40 → Windward is still processing fish

19:00 → Windward complete processing fish and review chains to all samples being sent out to Alpha Laboratories tomorrow.

19:45 → SO departs CP6 facility en route back home. SO will meet at Elmwood High School boat launch tomorrow at 08:30 AM.

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Upper Passaic River
Fish Survey

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08:40 → SO arrives on Site
ASJ is currently setting up.
Windward is getting supplies
onto both vessels.

Weather → Clear skies,
cool ~ 42°F

PPE → Level D Modified
w/ life vest

09:00 → Arrive at trotline
location UPR09A to check
and pull lines.

UPR09A-A → Empty

UPR09A-B → Empty

UPR09A-C → 1 brown bullhead catfish

09:15 → Navigate to gillnet
location UPR09E and pull
net. Yield includes:

1 northern pike, 2 white perch,
3 white perch, & 2 carp

W. Sider 1 → 455 mm

W. Sider 2 → 362 mm } 1950g

W. Sider 3 → 322 mm

Carp 1 → 2 kg, 522 mm

Carp 2 → 1.7 kg, 498 mm

SO

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Upper Passaic River
Fish Survey

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Approach trotline location
UPR09L to check and pull
lines:

UPR09L-A → Empty

UPR09L-B → Empty

UPR09L-C → Empty

09:30 → Arrive at location
gillnet UPR09E and check/
pull net. Yield includes: 4 carp,
1 white sucker, and 1 white perch.

Measurements include:

Carp 1 → 2.4 kg, 530 mm

Carp 2 → 2.7 kg, 535 mm

Carp 3 → 2.7 kg, 558 mm

Carp 4 → 2.3 kg, 560 mm

White Sucker → 378 mm, 600 grams

10:03 → Arrive at location
to check and pull trotlines
UPR09G

UPR09G-A → Empty

UPR09G-B → Empty

UPR09G-C → Empty

10:10 → Arrive at gillnet
location UPR10H. Yield

SO

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Upper Passaic River
Fish Survey

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includes: 5 carp, 1 white sucker, 1 northern pike, and 2 brown bullhead catfish. All 5 carp are weighed & measured prior to being released. See below:

Carp 1 → 2.4 kg / 530mm

Carp 2 → 1.9 kg / 520mm

Carp 3 → 4.1 kg / 671mm

Carp 4 → 4.15 kg / 690mm

Carp 5 → 500g / 125mm

10:30 → Arrive at trotline location UPR10G to check/pull

UPR10G-A → Empty

UPR10G-B → Empty

UPR10G-C → Empty

10:37 → Arrive at trotline

Location UPR10E to check/pull

UPR10E-A → Empty

UPR10E-B → Empty

UPR10E-C → Empty

Roller vessel checked trotlines UPR10C to pull.

UPR10C-A → 1 brown bullhead catfish

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Upper Passaic River
Fish Survey

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UPR10C-B → Empty

UPR10C-C → Empty

10:50 → Approach gillnet location

UPR10D. Yield is 1 carp

Carp 1 → 554mm, 3.15 kg

Carp 2 → SO 10/13/12

10:55 → Depart boat to boat ramp.

11:15 → Arrive back at boat ramp and unload supplies off boat.

11:20 → Windy weather departs back to CPB facility to process fish. SO departs Site

10/13/12